Masters Report:
Computer Application For Thesis Preparation

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Statement by Author

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Summary

To give students the skills they need to succeed in thesis preparation, the project *Computer Application for Thesis Preparation* provides comprehensive instruction on most aspects of thesis preparation, including:

- Learning to research and collect information
- Learning to use Microsoft Word
- Learning to use PageMaker
- Learning to create Web pages

This Masters Report is documentation for project *Computer Application for Thesis Preparation* in College of Architecture, Planning, and Landscape Architecture of The University of Arizona. It provides a concise, practical introduction to Web site construction, JavaScript programming. It also contains source code of JavaScript and HTML.

Acknowledgments

Creating a project like *Computer Application for Thesis Preparation* have been impossible if not for universities, companies, and individuals that make their Web page available for public. In this project, every Web page outside the domain *architecture.arizona.edu* is created by universities, companies, and individuals. I would like to thank them for providing contents for public to use.

I would also like to thank my committee members in School of Architecture at The University of Arizona for helping me to complete this project and report. They are Professor Robert Dvorak, Assistant Dean Susan K.E. Moody, and Architecture Library Librarian Ann M. Lally. Directly or indirectly many people have given me valuable comments. Without their help, this project can not be improved. Much of this report was created after my first child, Shirley, was born on May 22, 1999. And of course, my parent and my wife Guangjie for loving me in the first place.
CHAPTER 1

Introduction

World Wide Web

The World Wide Web is the fastest growing part of the Internet, as well as the most exciting. With the click of a mouse, you can start on the adventure of a lifetime, going to places you never dreamed of and gathering information otherwise unattainable.

One of the most commonly used capabilities of the Web is its ability to help you locate just about anything. Planning to take a trip or need to locate a place somewhere in the world? Several Web sites are designed to help you do just that. By now, everyone has heard of the great educational benefit of the Internet. Is it all hype? Most certainly not. In fact, the Internet can be used as an integral part of various educational programs at all levels.

The explosive growth of the Internet is being led by the hypermedia capabilities of the World Wide Web. The web is a publishing and communications environment that combines text, graphics, audio, video, animation, interactive software programs, and numerous forms of asynchronous and real-time communications. The Web is a convergent, content rich medium that brings all kinds of information together in one interactive location. This convergence is providing new learning resources for students and faculty.

The popularity of the Internet as the foremost global computer-mediated communication and information structure is well recognized. Tens of millions of educational institutions, government agencies, companies, non-profit organizations and individuals are using the Internet as a tool for education, communication, product support, promotion, public relations, financial transactions
and entertainment (Harris, 1995).

**Problems**

Problem #1:

"Almost all learning is now at a fixed pace; a "course" is the same length for all students...... our present system keeps the time the same and varies the amount of learning but that should be the other way around. Students should work at a given topic until attaining mastery. Students, with different interests, backgrounds, and learning styles, learn at different rates. Current educational structures make individualized pacing difficult, ......Another major difficulty today is lack of equity. Some people have very good learning opportunities, but many, particularly the poor, do not."


A large proportion of courses at most universities are taught using the traditional combination of textbook and stand-up lecture. Traditional lectures often do not have enough time to cover the material professor would like or accommodate different student’s background and learning styles. An on-line tutorial will provide the mechanism for students to be introduced to the material and the topics, and provide additional out-of-class reinforcement of the course material. In addition to catering to students with different learning styles, the fact that the modules are accessed through the web will provide many learning advantages. Students can access the material wherever they have web access, including the classroom.

Problem #2:

The tremendous growth in the price-performance of networking and storage has fueled the explosive growth of the web. The amount of information easily accessible from the desktop has dramatically increased by several orders of magnitude in the last few years, and shows no signs of abating. Users of the web are being confronted with the consequent information overload problem and the sheer volume of information can become intimidating. Finding the information you need is more and more difficult. There are hundreds of search engines, meta-searchers, subject directories, and all-in-one search sites. Even using these computer software tools, users get hundreds of links listed every time.
The availability of information on the World Wide Web makes students feel overwhelmed, inadequate for not being able even to begin to keep up, or they try to forget that this enormous and ever growing global repository of knowledge exists. Someone searching for information can easily be overwhelmed by links of low-quality and unrelated content. Thus, how to get to each Web site more effectively and retrieve the information you need faster becomes an issue.

**On-line tutorial**

Tutorials delivered over the Internet, or "online" are one version of a type of education. Like distance learning which takes place by correspondence, by broadcast television or video-conferencing, the on-line tutorial is delivered by computer network. All these methods share an important factor for success, which is the ability of the users to self-direct learning. Self-directed learning happens anytime anyone takes the responsibility for their own learning; that is, when they identify the need to learn, locate the resources, evaluate their own progress.

Self-directed learners show initiative, independence, and persistence in learning. As they accept responsibility for their learning, they see problems as challenges rather than obstacles: They share a high degree of curiosity, a strong desire to learn, and the capacity for self-discipline. They can set goals, make plans, organize their time, and set an appropriate pace for learning (Moore, 1986).

This computer application is designed to give students the skills they need to succeed in thesis preparation. It provides comprehensive instruction on most aspects of thesis preparation, including:

- Learning to research and collect information
- Learning to use Microsoft Word
- Learning to use PageMaker
- Learning to create Web pages

Approaching the subject from an integrated, multidisciplinary perspective, students learn to view thesis preparation as a complex process involving multiple skills. Students develop the core knowledge and skills required to finish their thesis effectively. Students also have the opportunity of learning more specialized knowledge and skills to enhance specific competencies of their choice.

This computer application has been developed with attention to the diverse interests of individuals and the needs of a new learning medium. The program recognizes that while many specific skills come to bear on the process of thesis preparation, it is also necessary to develop a comprehensive, generalized understanding of research method. As well as providing the potential for career advancement for those seeking to gain new skills in using the latest Internet tools and techniques, the application also provides an opportunity for students preparing for the workplace after their graduation.

This computer application is conveniently arranged for beginner, intermediate and advanced level students. Students will find it an outstanding reference guide on different topics - over 250 Web pages. To satisfy students’ different learning styles and give professors the most flexibility, it is self-paced for home or classroom study. Students could make an in-depth study of the site to learn new skills, or to just browse through the site to pick up tid-bits of information to refresh their skills.

This computer application is a virtual teaching and learning environment, providing resources for students, educators and other kinds of learners. It contains 40 self exam pretest questions and hundreds of Web links that are available online. It is like having an actual campus ... at your fingertips! It is also an interactive computer application which will take you through review quizzes, and direct you to important sites.

**Purpose**

Web-based modules are an important component in changing the way faculties teach and the way students learn. Because the Web-based modules can cater to a variety of learning styles and connect to any Web site which has helpful content, students will be able to learn a large proportion of the material self-paced and the classroom time can be freed up to focus on concepts, hands-on exercises, and to incorporate projects.

This report grew from my involvement with Arch. 560, *Introduction to graduate computing* in the College of Architecture, Planning, and Landscape Architecture. I propose to convert part of the lecture-based class to Web-based modules and have developed a computer application to accommodate different learning styles and to cover most topics in this class. Many of the modules I have
developed will be suitable for use in other courses, the interface shell could be used by anyone wishing to develop Web-based modules, the JavaScript source code can be embedded in other online course modules, and the process I used to develop my modules can be translated to any course.
CHAPTER 2

Technical requirements

Audience

If people can answer "yes" to these questions, they are an appropriate audience for this computer application:

Do you want to learn from the comfort of your home or the convenience of your classroom?
Do you want to save time by getting on to helpful Web sites by just one click?

The mandate of this Web-based computer application is to be an excellent resource to the general public on all aspects of Internet education and training. It provides a number of educational initiatives for the students at The University of Arizona.

Computer skills and technical requirements for this tutorial

This application is dependent upon the Internet, and the quality of users' online experience is related to their available technology and skills. The following are the minimum requirements for technology and competencies for successful online learning.

1. Computer Literacy:
The ability to start up a computer, find and execute programs, and set up files.

2. Internet Literacy:
The ability to access, browse and search the Web, to send and receive e-mail, and to navigate a Web-based learning area.
3. Hardware:
The minimum hardware requirements to successfully participate in this virtual class is a 486 66Mhz PC with VGA color graphics, a minimum of 16 MB RAM, and about 50MB available on the hard disk. A MacIntosh Performa or better (68040 processor) with 16 MB RAM, and about 30MB available on the hard disk.

4. Modem:
A modem with a minimum speed of 28.8 k baud is strongly recommended for those users who will be dialing up their internet connection.

5. Internet Account:
You will need to have access to the Internet, through a school network or an account with an Internet Service Provider (ISP) such as Goodnet, Earthlink, Microsoft Network, etc. (AOL users may have to download special files to use AOL with Netscape.) Check CNET's evaluation of ISP providers at http://cnet.com/Content/Reviews/Compare/ISP/.

6. Browser:
This computer application requires Netscape 4.0 or Internet Explorer 4.0 or higher. Users may download Netscape at no charge from Netscape (www.netscape.com) or Internet Explorer from Microsoft (www.microsoft.com).
CHAPTER 3

Structure of the project

Application

This computer application is a 100% on-line Web course that consists of four learning areas, four pretests. Each learning area is presented in three skill levels: the basic level, the intermediate level, and the advanced level. This application also uses 10 JavaScript programs to control the data flow and navigation. New users, who don’t know which level they should choose, should go through the “Pre-test” so that computer program can lead them to one of the three levels. For a student who has already been using the application and wants to continue the study, “Sitemap” will provide a shortcut. More experienced users may do the application by topic through this “Sitemap”.

Here are the components in this computer application:

1. Front page
For the best performance of this on-line tutorial and a good learning experience for the students, the students should be required to have certain computer hardware and software before they go through this Web site. The students are also expected to have basic computer knowledge which is essential to this class, like the ability to use one kind of computer (PC, Mac, Unix, or other platforms) and basic understanding of a computer network. Students will always be able to return to “Front page” by clicking on “Front page” in the Navigation banner located at the top of every page.

2. Main menu page
This is a bird’s eye view of all the learning areas and “Sitemap”s. Students will be provided with descriptions of four modules before they make the decision which one they want to study. These descrip-
tions are prefaced by questions, like:

A. Why do I need to study this module?
B. Who should take this module?
C. What will you learn from this module?
D. How long will it take for you to finish it?
E. Are there any prerequisites?

In this way, students will more efficiently locate the material they want to learn. The pretest for a specific module can be taken by clicking on the ‘BEGIN’ button. Different levels of learning are provided by the Sitemap, which can be reached by clicking on ‘RESUME’ button. Students will always be able to return to the Main menu page by clicking on ‘Main menu’ in the Navigation banner located at the top of every page.

3. Help area
Students who do not have basic computer knowledge which is essential in this class, like the ability to use the computer and a basic understanding of a computer network, will be lead to the Help area. In this area there are answers for frequently asked questions (FAQ), like:

a. How can I know which computer I am using?
b. How can I find out my computer's resolution?
c. Which version of Web browser am I using?
d. What is the basic function of a Web browser?
e. How do I create a folder by using Windows Explorer?

Students will always be able to return to the Help area by clicking on ‘Help’ in the Navigation banner located at the top of every page.

Modules

There are four learning areas, which will be covered in this application. They are organized into four modules. Every module will have a similar structure, which contains five parts. The structure is:

1. Pretest
Pretest is a group of ten multiple-choice questions ranging from Basic Concepts to Advanced Topics. Each question contains four or five choices and only one of them is correct. Behind the pretest there is a
JavaScript program, which will calculate a score for the student. Then the program will use the score to decide which level of learning area this student should attempt. (For more detail of this JavaScript program, please read Chapter 6 - Control - Using JavaScript)

2. Basic concepts (Level one)
Students will learn basic features and Concepts of a module; then build basic skills.

3. General topics (Level two)
Students may have some experience, but would like to learn more.

4. Advanced topics (Level three)
Students will get really into it and cap off their knowledge with more advanced topics and follow leads to important resources on the Internet.

5. Post-test
It is the same as the pretest. It will give students a chance to test whether they have learned more about the topic or if their understanding has improved after attending the learning area.

Education is a cycle of learning knowledge and checking what we learned. So generally speaking, there are three steps here for each circle. First, students will finish a pretest and get a score. Second, according to the scores, students will be automatically be directed to one of the three levels shown above, which are designed to fit students who have different background. Third, after finishing one level, students will be asked to take a post-test. After the post-test, according to the scores, students will be automatically directed to the next level or remain in the same level to study. If they want, students can go to a page where the missed questions are displayed. After they review the score, they will be lead by the computer program to a study area.

**File System**

All files, include HTML files, images files, and JavaScript source files, are located at a server in the School of Architecture. All files are organized by their usage and are saved in folders. There are two advantages to organizing files in this way:

1. Each module will work independently. Changing one module will not damage other modules.
2. If there are bugs (mistakes), it is easier to locate them

The file system:

/Research/
blank.html index.html intro.html intro_module1.html
intro_module2.html intro_module3.html intro_module4.html
mainmenu_top.html mainmenu.html

/Comment/
comment_top.html emailForm.html index.html

/Help/
background.html help_top.html index.html

/images/
images1.gif images2.gif images4.gif images5.gif
images6.gif images7.gif images9.gif ruler640.jpg

/win.gif

/images/
blank.gif blueball.gif blueballon.gif ie_anl.gif logo.gif
logo_d.gif red.gif title.jpg title_d.jpg triangle.gif
tuneup.gif wrong.gif

/Library/
blueball.js check1.js check1a.js check2.js check2a.js
check3.js check3a.js check4.js check4a.js index.html

/Module1/
index.html module_top.html pretest_intro.html
pretest.html module_sitemap_top.html index_sitemap.html
sitemap.html suggestion_low.html suggestion_high.html
basic_index.html basic_top.html control1.html
control1-2.html control1-3.html topics1.html
general_index.html general_top.html control2.html
control2-2.html control2-3.html topics2.html
advanced_index.html advanced_top.html control3.html
control3-2.html control3-3.html topics3.html

/Module2/
index.html module_top.html pretest_intro.html pretest.html
module_sitemap_top.html index_sitemap.html sitemap.html
<table>
<thead>
<tr>
<th>File Path</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>suggestion_low.html</td>
<td>- The front page of the computer application.</td>
</tr>
<tr>
<td>basic_top.html</td>
<td>- The introduction of Module 1.</td>
</tr>
<tr>
<td>control1-3.html</td>
<td></td>
</tr>
<tr>
<td>general_top.html</td>
<td></td>
</tr>
<tr>
<td>control2-3.html</td>
<td></td>
</tr>
<tr>
<td>advanced_top.html</td>
<td></td>
</tr>
<tr>
<td>control3-3.html</td>
<td></td>
</tr>
<tr>
<td>index.html</td>
<td></td>
</tr>
<tr>
<td>pretest.html</td>
<td></td>
</tr>
<tr>
<td>index_sitemap.html</td>
<td></td>
</tr>
<tr>
<td>suggestion_high.html</td>
<td></td>
</tr>
<tr>
<td>control1.html</td>
<td></td>
</tr>
<tr>
<td>topics1.html</td>
<td></td>
</tr>
<tr>
<td>control2.html</td>
<td></td>
</tr>
<tr>
<td>topics2.html</td>
<td></td>
</tr>
<tr>
<td>control3.html</td>
<td></td>
</tr>
<tr>
<td>topics3.html</td>
<td></td>
</tr>
<tr>
<td>module_top.html</td>
<td></td>
</tr>
<tr>
<td>pretest_intro.html</td>
<td></td>
</tr>
<tr>
<td>module_sitemap_top.html</td>
<td></td>
</tr>
<tr>
<td>sitemap.html</td>
<td></td>
</tr>
<tr>
<td>suggestion_low.html</td>
<td></td>
</tr>
<tr>
<td>basic_index.html</td>
<td></td>
</tr>
<tr>
<td>control1-2.html</td>
<td></td>
</tr>
<tr>
<td>general_index.html</td>
<td></td>
</tr>
<tr>
<td>control2-2.html</td>
<td></td>
</tr>
<tr>
<td>advanced_index.html</td>
<td></td>
</tr>
<tr>
<td>control3-2.html</td>
<td></td>
</tr>
<tr>
<td>topics3.html</td>
<td></td>
</tr>
</tbody>
</table>

General descriptions:

- index.html: The front page of the computer application.
- intro_module1.html: The introduction of Module 1.
- mainmenu.html: The main menu page.
<table>
<thead>
<tr>
<th>File Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>emailForm.html</td>
<td>The email form for user to send comments.</td>
</tr>
<tr>
<td>background.html</td>
<td>The page contain FAQs about basic computer knowledge.</td>
</tr>
<tr>
<td>pretest_intro.html</td>
<td>The introduction of pretest page.</td>
</tr>
<tr>
<td>pretest.html</td>
<td>The pretest page.</td>
</tr>
<tr>
<td>sitemap</td>
<td>The sitemap page.</td>
</tr>
<tr>
<td>suggestion_low</td>
<td>The page users will be lead to when they fail the pretest with a very low score.</td>
</tr>
<tr>
<td>suggestion_high</td>
<td>The page users will be lead to when they pass the pretest with a very high score.</td>
</tr>
<tr>
<td>basic_index.html</td>
<td>The frame page for “Basic Concepts”.</td>
</tr>
<tr>
<td>topics1.html</td>
<td>The page contains Web links for “Basic Concepts”.</td>
</tr>
<tr>
<td>general_index.html</td>
<td>The frame page for “General Topics”.</td>
</tr>
<tr>
<td>topics2.html</td>
<td>The page contains Web links for “General Topics”.</td>
</tr>
<tr>
<td>advance_index.html</td>
<td>The frame page for “Advanced Topics”.</td>
</tr>
<tr>
<td>topics3.html</td>
<td>The page contains Web links for “Advanced Topics”.</td>
</tr>
<tr>
<td>control1.html</td>
<td>The page contains buttons for “Basic Concepts”. Button “Basic Concepts” is highlighted.</td>
</tr>
<tr>
<td>control1-2.html</td>
<td>The page contains buttons for “Basic Concepts”. Button “Posttest” is highlighted.</td>
</tr>
<tr>
<td>control1-3.html</td>
<td>The page contains buttons for “Basic Concepts”. Button “Module 1 Sitemap” is highlighted.</td>
</tr>
<tr>
<td>control2.html</td>
<td>The page contains buttons for “General Topics”.</td>
</tr>
<tr>
<td>control2-2.html</td>
<td>- Like control1-2.html</td>
</tr>
<tr>
<td>control2-3.html</td>
<td>- Like control1-3.html</td>
</tr>
<tr>
<td>control3.html</td>
<td>The page contains buttons for “Advanced Topics”.</td>
</tr>
<tr>
<td>control3-2.html</td>
<td>- Like control1-2.html</td>
</tr>
<tr>
<td>control3-3.html</td>
<td>- Like control1-3.html</td>
</tr>
</tbody>
</table>
Data flow diagram

1. User enters the system.
2. System displays the Front Page.
3. User can choose to go to Main Menu, Help, or Comment.
4. Main Menu leads to Introduction.
5. Introduction of Module 1 is displayed.
6. From Module 1, users can choose to begin or resume.
7. If they choose to begin, they go to Pretest.
8. If they choose to resume, they go to Resume.
9. From Pretest, users can choose to take the Post-test.
10. From Resume, users can choose to access Peer Score.
11. Peer Score allows users to view their scores and make decisions.
12. Users can access Advanced Topics, General Topics, or Basic Concept from Peer Score.
13. Advanced Topics, General Topics, and Basic Concept provide detailed information.
14. Post-test is accessible from the main menu, allowing users to finalize their decisions.
CHAPTER 4

Topics of modules

There are four learning areas in this application. They are organized into four modules. Every module will cover many topics, which are divided into three levels.

Module 1 - Learn to research and collect information

1. Introduction for Module 1:

a. Why do I need to study this area?
You will find that the Web is a good research tool when you are looking for sources for your research projects, when you want to learn more about research strategies, or when you want to explore ideas with other students.

b. Who should explore this module?
Anyone interested in finding out what the Internet is, how it works and how to use it.

c. What will I learn from this module?
This course will teach anyone with little or no Internet experience the basics of the Internet, how to use the tools and get the most out of the Internet.

d. How long will it take for me to finish it?
This module, which contains 42 topics, will take average students 2 hours to finish. This time does not include the download time of Web sites.

e. Are there any prerequisites?
You are assumed to have a basic understanding of computers.

2. Basic concepts:

*The Internet:*
- What is the Internet and what is a network?
- What is an Internet address?
- What is a URL?

*Web Browsers:*
- What's in a Web browser?

*Web Search Engines:*
- What is a Search Engine?
- What are the difference between search engines?
- Web search

*Email:*
- What is e-mail?
- Basics of sending and receiving
- How do I address mail?
- What is a domain name?

3. General topics:

*The Internet:*
- Evaluating Information Found on the Web
- What is SABIO?
- How does the internet function?
- Jargon and Background of the Internet

*Web Browsers:*
- Navigating With the Netscape Browser
Bookmarking and Organizing for Efficiency

_Web Search Engines:_
- Search Tools and Strategies
- Search Engines, Indexes, Directories and Libraries
- Tips for Searching the WEB

_Transferring Files Through The Internet:_
- How to open an account on campus?
- How to do email on campus?
- Quick guide to email program Pine
- About email attachment
- How to attach files in different email programs?
- An email attachment exercise by using Netscape Mail

4. Advanced topics:

_The Internet:_
- FNC Resolution: Definition of "Internet"
- What is Hypertext?
- RIO Glossary
- Glossary of Internet Terms

_Web Browsers:_
- Microsoft IE
- Netscape Navigator

_Web Search Engines:_
- Printing, Downloading and Saving Web Information
- Ten Friendly Tips for Internet Research
- How to make queries for Web search?
- Tips for searching from Microsoft
- Search Helper - Windweaver's Easy Search
Module 2 - Learn to use Microsoft Word

1. Introduction for Module:

a. Why do I need to study this area?
Microsoft Word is a good word-processing tool when you are working on your research reports and thesis, when you want to learn how to get your job done faster and more effectively than ever before, or when you want to create great-looking documents.

b. Who should explore this module?
Anyone interested in finding out what Microsoft Word is, how it works and how to use it.

c. What will I learn from this module?
This course will teach anyone with little or no word-processing experience the basics of Microsoft Word, how to use the tools and get the most out of this application.

d. How long will it take for me to finish it?
This module, which contains 66 topics, will take average students 2 hours to finish. This time does not include the download time of Web sites.

e. Are there any prerequisites?
You are assumed to have a basic understanding of computers and the Internet.

2. Basic concepts:
Getting Started with Word 97:
- What is Microsoft Word 97?
- How to use toolbars, buttons, and menus in Microsoft Word?
- Review of Word's Common Toolbars
- What's on the Word 97 Screen?
- How to choose commands?
- Which Screen Views do I need to use?
- How to start entering text?

Creating, Saving, and Printing Documents:
- How do I create a new document?
- How do I save a document?
- How do I open a document?
- How to preview a document?
- How to print a document?
- How do I change my paper from a Portrait to a Landscape setting?
- How To Save Your Documents in the Proper Format?

Editing Documents:
- How to change the font of text or numbers?
- How do I bold, italicize, and underline in Microsoft Word?
- How can I highlight the entire document at once?
- How can I quickly select an entire paragraph?

Moving and Copying Text:
- How to copy and paste existing text into a file?
- How can I use drag-and-drop editing?
- When I type, the new text replaces existing text. Why?

3. General topics:

Using Styles, Headers and Footers, bullets:
- How do I add bullets to my document?
How do I add a Header or Footer?
Adding Numbers and Bullets
How to customize Bullets?
How to remove Bullets or switch to numbers?
How to create Headers and Footers?

Creating, Using and Formatting Tables:
How to create tables in Microsoft Word?
How to format tables?
How to perform calculations in tables?
How do you center an entire table in Word?
How can I prevent a page break from occurring in the middle of my table?
How to create additional cells in a table?

Formatting Text, Paragraphs, and Documents:
How to change the "text quote" style?
How to solve paragraph indent problems?
How can I merge two MS Word files into one?
How do you separate a document into new and/or existing files?
How do I stop extra bullets from being added to a list after pressing ENTER?
How to use columns?
How to restore page numbers?

Basic text formatting:
How to use the Font Dialog Box?
What is the usage of Format Painter?
How to use formatting tools?
Topics related to Indents
How to set line spacing?
How to set margins?

4. Advanced topics:

Using Graphic Elements in Documents:
How do I put clip art into a document and print it in color?
Can I make the top of a page print horizontally and the bottom print vertically?
How to rotate graphics to fit within margins?
How can I reduce a large graphic without cropping part of the picture off?
How can I delete imported graphics?
How to use color, shapes, and lines?

Formatting your thesis:
What margins should I use for my thesis?
How to number pages?
Which font and type size should I use?
What is the order of sections and how do I format them?
How to create a table of contents for your thesis?
How to show the List of Illustrations or List of Tables?

Using citations in your thesis:
How to cite articles in your thesis?
How to cite books in your thesis?
How to cite government documents?
How to cite unpublished material (Dissertation or Thesis)?
How to cite Performances and Video Cassettes?
How to cite electronic sources?

Module 3 - Learn to use PageMaker

1. Introduction for Module:

a. Why do I need to study this area?
Adobe PageMaker is a professional page layout tool for your thesis or your project report preparation. PageMaker has always been known for its ease of use.

b. Who should explore this module?
Anyone interested in desktop publication, how PageMaker works and how to use it.
c. What will I learn from this module?
This course will teach anyone with little or no document layout experience the basics of layout, how to use the toolbox, how to use text block, how to use graphics, etc.

d. How long will it take for me to finish it?
This module, which contains 52 topics, will take average students 2 hours to finish. This time does not include the download time of Web sites.

e. Are there any prerequisites?
You are assumed to have a basic understanding of computers, and the Internet.

2. Basic concepts:

Getting Started with Adobe PageMaker:
What is PageMaker? How to setup a new document?
How to start PageMaker? What is basic work process of PageMaker?
Get Started Quickly with Templates and More
Discover Design Flexibility
Work With Reliable Industry Standards

Adobe PageMaker's Toolbars:
What are the icons on PageMaker's toolbar?

Selecting Objects:
How to select an object that's underneath another in layers?

3. General topics:

Formatting Document:
A quick guide to create, format a document
What is PageMaker's control palette? How to use it when you choose different objects?
Using Text and Graphics:
How to make your boxes go with your boxed paragraphs?
What is kerning? How to do kerning? How much?
How to import and manipulate text?
How to define paragraphs? How to set up tabs and what are paragraph styles?
Where are page indicators? How to move objects between pages? What are master pages?
How to add 'bullets' or numbers to selected paragraphs in the text
How to make a Table of Contents for your thesis
A short tutorial about the basics of Colors
How to use, print, and make colors in PageMaker?
How to use drawing tools, how to import graphics and manipulate them?
How to combine graphics with text?

Shortcuts, Symbols and Troubleshooting:
Cross Product (Photoshop, Illustrator, and PageMaker) Keyboard Shortcuts
What is the shortcut to do a power paste?
Special typesetters, punctuation and esoteric symbols
Do you know these PageMaker 6.5 special characters?
PageMaker Super-Tips
Troubleshooting about HTML creation, Map styles, force redraws, quick moves, shifty maneuvers, precise pasting, etc.

Desktop Publishing Glossary:
PageMaker desktop publishing glossary
Desktop Publishing Glossary

4. Advanced topics:

Advanced Formatting and Styles:
What is Layers in PageMaker 6.5? Why you need to use it?
Why and how to use Adobe PageMaker 6.5 Layers?
How to set up baselines, specify baseline type, and make a baseline leading grid?
How to format tab leaders
How to combine several text blocks into one story in the order you want?
What are the differences between templates and master pages in PageMaker?
What are frames in PageMaker 6.5, how to use, fill them?
How to convert shapes to frames?
How to design a layout suitable for a high-quality promotional brochure, magazine spread, or annual report?

Advanced Text and Graphics Topics:
Photoshop Clipping Paths in PageMaker General Information
How to relink images after these links are broken?
How to wrap text around another text block?
How to use PageMaker's Colors palette?
Masking custom backgrounds to create special effects

File Management Techniques and Printing:
Converting Older PageMaker Publications to PageMaker 6.x Format General Information
Damaged PageMaker Publication Troubleshooting Guide
PageMaker 6.5 Publication Recovery General Information
Recommended Workflow for Creating PageMaker Publications
How to save a damaged PageMaker file?
Creating Bookmarks For PDF
How to get rid of those temporary files?
How big are your files?
TVU-Saving space

Exporting PDF, HTML Files from PageMaker Files:
Exporting PDF Files for High-End Printing from PageMaker 6.5x
Limitations of PageMaker 6.5 HTML Export Feature
Creating HTML Documents in PageMaker 6.5
PageMaker Primer - Scripts, HTML, PDF

Module 4 - Learn to create Web pages

1. Introduction for Module:
a. Why do I need to study this area?
This module describes the basics of web page files -- what they're made of and how they interact. If this is your first exposure to writing web pages, you definitely need to study this module. Hyper Text Mark up Language is what makes the web spin. This is the universal code that all web pages are written in. Like print media, web pages have one core purpose: to convey information. This tutorial that will give you a solid foundation for making web pages.

b. Who should explore this module?
Students who are interested in Web page design and presentation, and anyone who wants to gain more insight into building a Web site. New and first time students of Netscape Composer.

c. What will I learn from this module?
From this module you will learn how to optimize your graphics for best appearance and fastest transmission over the Internet. This module will also teach you in detail the process of writing the actual web pages. It covers most major HTML codes and their proper use. It will show you how to make your own web pages using HTML code.

d. How long will it take for me to finish it?
This module, which contains 75 topics, will take average students 2 hours to finish. This time does not include the download time of Web sites.

e. Are there any prerequisites?
You are assumed to have a basic understanding of computers, the Internet, and Web browsers.

2. Basic concepts:

*Introduction to Web Design:*
The web is the largest client/server system, what is a client/server system?
Web Browser and Hypermedia

*The Basics of Web Navigation:*
What is a URL (Universal Resource Locator)?
How Links in a Web page work?
What is an image map? How it will help you to navigate my Web site?

The Basics of HTML:
- What is HTML - the Language of the Web? What does it look like?
- What are the structure and elements of HTML documents?
- What are the functions of basic HTML elements?
- What are these basic data types - Elements, Tags, and Attributes in HTML?

3. General topics:

Posting Images:
- Graphics and palettes
- Which graphic formats can be displayed on the Web?
- How to design, create, and use background images?
- What are the two most popular image formats used on the Web?
- How to get the smallest possible image without losing quality?
- How to add an image to a HTML document?
- How to reference images
- How to make images clickable?
- Can I control the image Size in a Web page?
- What are the attributes that affect how images are set within a page?
- How to control the image margins, so that text can wrap around images?

Modifying Text:
- What are the most basic HTML tags which let the browser know about the document itself?
- How to display text information by using HTML body tags?
- How to use text on your page and all the tags you will need to know to change it?
- What are body tag attributes? How to use them?
- How to control the size of text?
- How to control the placement of the text?
- Can I change the look of text showing on a Web browser?
- How to make ordered, unordered and definition lists for your site?

Hyperlinks and Navigation:
How to link one document to another one?
How to create internal links?
What are the two ways you can reference a document within an HREF attribute?
Create an Email link, so other people can send Email to you?

4. Advanced topics:

Advanced Navigation Design:
How to design a website to optimize the user's experience and benefit from it?
How to implement imagemaps?
What is an imemap and how to define it?
How to create a popup window?

Basic Principles of Web Site Navigation
How to design the front page - the very first page that visitors see?
What are the characteristics of well-designed home pages?
How to manage the hierarchical arrangement for your Web site?
Why a "navigation bar" is an essential element of a well-laid-out site?
How to use frames as part of your navigational strategy?
If your site is complex, a site map may be a good navigational tool of last resort.

Advanced Layout Design:
Web Design - More than Meets the Eye
Sensory Design
Conceptual Foundations
Design of Reactive Components
Why your layouts have to be 'flexible'?
Page Layout, Margins, Indenting, and Columns
Page Layout: Hacks
Page Layout: Tables
Page Layout: Navigation Menus
Page Layout: Style Sheets
What is a good typography?
Tricks about the background images
Does your design work satisfactorily in all the current versions of this browser
How to balance between aesthetics and functionality - the style of navigation?
How to tame the electric page?
See how tables can enhance any webpage?
How to make frames to split your screen into multiple HTML pages?
Which kind of image do I need to use for my Web Pages?

Advanced Web page topics:
Colors for Web
What are the basic colors predefined by your web browser? What are the names for them?
Do you know the difference between adaptive and web safe color palettes and how to make them?
After you create your Web pages, how to put them on-line?
What software to use for uploading your site to the Net?
What do I need to do to put special characters on my Web page?
Web Design Resources from graphic designers
Web Design topics index
Cascading Style Sheets
Using the BACKGROUND Attribute
The process you need to know to create a gif animation
See how to make the background of a gif image transparent using 3 popular programs?
If you are building a page and you encounter some errors or problems,
check this list to find the solution
What monitor resolution should you be designing for?
CHAPTER 5

Pretests

Introduction

Each pretest is given after this introduction:

Education is a cycle of learning knowledge and checking what we learned. There are three steps here for each cycle. First, you will finish a pretest and get a score. The pretest is a group of ten multiple-choice questions ranging from Basic Concepts to Advanced Topics. Each question contains four choices and only one of them is correct.

Second, according to your score, you will be automatically directed to one of three levels of learning, which is designed to fit to your background.

Third, after finishing one level, you will be asked to take a post-test. After the post-test, according to the score, you will be automatically directed to the next level or remain in the same level to study.

Pretest for Module 1

1. When speaking of the Internet, "Yahoo" refers to?
   a. a series of networked computers
   b. an Internet search tool
   c. a successful search on the Internet
   d. a list of cowboy related sites on the Web
2. An Internet address with a .com at the end of the address would indicate which kind of Web site?
   a military site
   a University site
   a business site
   a site in a communist country

3. Which of the following allows you to revisit your favorite sites without entering an address or using a search tool?
   bookmarks
   browsers
   addresses
   search engines

4. Which one is a name for a Web browser?
   Windows 98
   Yahoo
   Navigator
   Web composer

5. The term "search syntax" refers to:
   Alta Vista
   the proper etiquette for using search tools
   searching for a Web browser
   the way that search words are entered

6. To which menu would you go to set up Netscape 4.0?
   use Preferences through Edit menu
   use Page source through View menu
   use Page setup... through File menu
   don't know

7. Which of the following are names for Web search engines?
8. Placing quotation marks (""") around a two word phrase in the Alta Vista search engine will cause the search tool to:
   - find nothing
   - search for Web sites that have either of the words on the page
   - find pages with the first word only
   - search for Web sites that have both of the words together on the page

9. To save a text document from the Internet through a Web browser, use:
   - Print button
   - Save as through File menu
   - through View menu, bring out Page Source
   - Save as through File menu, change Save as type to .txt

10. To transfer an image on the Internet, which transfer mode do you need to use?
    - ASCII
    - Binary
    - Both ASCII and Binary
    - Don't know

**Pretest for Module 2**

1. What keys, when pressed together, are a shortcut for removing all font styles from selected text?
   - Alt + Ctrl
   - Tab + Spacebar
   - Ctrl + Spacebar
   - Alt + Tab
2. Font, font size, and font styles can be easily accessed from which toolbar?
   Standard Toolbars
   Drawing Toolbars
   Menu Bar
   Formatting Toolbars

3. What menu choices will open the appropriate dialog box for changing line spacing?
   File, then Page Setup
   File, then Properties
   Format, then Paragraph
   Format, then Font

4. Which of the following toolbar/ruler symbol describes a right tab stop type - i.e. Text flows to the right of the tab stop?
   ![Symbol]

5. Which toolbar button would you choose to set alternate headers and footers for odd and even pages?
   Insert Page Number
   Page Setup
   Insert number of Pages
   Format Page Number

6. Which of the following icons from a toolbar of the Header/Footer means -
7. Choose the correct sequential order of the following steps to copy text from one open document to another: 1. Click on the Copy button. 2. Click on the Paste button. 3. Choose Window from the menu and toggle to the document to be copied into. 4. Select the text to be copied. 5. Place the insertion point where you wish to place the copied text.

1. 2. 3. 4. 5
2. 1. 3. 4. 5
3. 4. 2. 5. 1
4. 1. 3. 5. 2

8. Which icon means - view Multiple Pages?
9. Which is correct about these paragraph alignment types and the appropriate toolbar button? ?

- Centered
- Right-aligned
- Left-aligned
- Justified

10. Which keys constitute the keyboard shortcut for opening Word's thesaurus?
- Shift + F7
- Shift + Alt
- Alt + F1
- F7 + F1

**Pretest for Module 3**

1. What menu choices will open the appropriate dialog box for setting Double-side and Page Numbering?
- File, then Show Master Pages
- File, then Document Setup...
- File, then Printer Styles
- File, then Place...

2. To an imported image in a PageMaker document, you can NOT:
   - Change an image color
   - Move an image
   - Resize/reshape an image
   - Crop an image
   - Duplicate an image

3. What menu choices will open the appropriate dialog box for inserting
and deleting pages?
   - Element
   - File
   - Layout
   - Window

4. If you can not see the Tool box, what menu choices will open it?
   - Window, then Show Control Palette
   - Window, then Show Layers
   - View, then Show Rulers
   - Window, then Show Tools

5. Which statements about Layer in PageMaker is correct?
   - Can be brought to the screen by using the keyboard shortcut, Ctrl-8
   - Various parts of the document on different layers could be selectively shown or hidden
   - Include editorial comments or criticism to a page without it being printed
   - All of the above
   - None of the above

6. By using the 'Pick' tool, you can manipulate a text block in these ways EXCEPT:
   - Moving a block
   - Reshaping a block
   - Changing text color
   - Cut, copy, paste

7. Which are methods to select a number of items at once (Selecting multiple objects):
   1. Hold the Alt key down as you select each item
   2. Hold the Shift key down as you select each item
   3. With , click and drag, creating a box around all the required objects
   4. With , click and drag, creating a box around all the required objects
   5. With , click and drag, creating a box around all the required objects

   1, 4, 5
8. Which icon means - Cropping Tool?

9. What is Kerning in PageMaker?
   Kerning is the adjustment of space between pairs of lines in typesetting
   Kerning is the adjustment of space between pairs of words in typesetting
   Kerning is the adjustment of space between pairs of characters in typesetting
   Kerning is the adjustment of space between pairs of paragraph in typesetting

10. How to tell PageMaker not to keep a copy of the file within the document, but to refer to the original graphics file?
    File, Links Manager, in dialog click on name of image, select Options. Now deselect the 'Update automatically'
    File, Links Manager, in dialog click on name of image, select Unlink. Now deselect the 'Store copy in publication'
    File, Links Manager, in dialog click on name of image, select Update. Now deselect the 'Alert before updating'
    File, Links Manager, in dialog click on name of image, select Options. Now deselect the 'Store copy in publication'
Pretest for Module 4

1. Which way is correct to create an Email link, so other people can send Email to you?
   <a href="HTTP://www.u.arizona.edu/~yourLoginName">
   <a src="mailto:yourLoginName@u.arizona.edu">
   <a name="mailto:yourLoginName@u.arizona.edu">
   <a href="mailto:yourLoginName@u.arizona.edu">

2. Which statement is NOT correct about URL?
   A URL is the most basic information about where a web page is located
   A URL is HTTP
   A URL looks like: http://www.arizona.edu/
   A URL includes information about which web server the page is stored on and the protocol we will use to fetch it.

3. Which are the most popular graphics formats for the World Wide Web?
   Gif, PDF
   JPG, PSD
   GIF, JPG
   BMP, GIF

4. Which of these statements is NOT correct about Image Map?
   Image Map can only specify a rectangular clickable area
   Image Map can be Server-side or client-side
   Within the <Img> tag, you need to use tag USEMAP
   Within the <Map> tag, you need to use tag AREA

5. Which statement about HTML is NOT correct?
   The Web browser will "interpret" the HTML document and display it
   HTML is Hyper Text Markup Language
   HTML can not be used on a variety of computer systems without change
   HTML can be written by using a simple text editor.
6. How to control an image size on the Web?
   - Resize Web browser
   - Change browser's font size
   - Using WIDTH and HEIGHT attributes of img tag
   - Can not control it

7. Which tag should you use to display text at the top of the browser as well as to bookmark the page?
   - `<HTML>`
   - `<TITLE>`
   - `<HEAD>`
   - `<BODY>`

8. Which one will never be part of your navigational strategy?
   - Using Frames
   - Using Navigation Bars
   - Using Image maps
   - None of them

9. Which way is correct to add an image to a HTML document?
   - `<img here="yourImageName.gif">`
   - `<img name="yourImageName.gif">`
   - `<a here="yourImageName.gif">`
   - `<img src="yourImageName.gif">`

10. Which explanation of this color definition - `<font color="#33aa99">` is correct?
    - this color will show exactly the same on different computer platforms
    - aa is the Symbol for Green color
    - 33 is the Hexadecimal numbering for Red color
    - 99 is the decimal numbering for blue color
CHAPTER 6

Control - Using JavaScript

Introduction

JavaScript is an evolving scripting language that can be used to extend the capabilities of HTML pages on the World Web Web. JavaScript is being developed by Netscape Communications Corporation for use in their Netscape Web browser (client-side JavaScript) and their Web server products (server-side JavaScript). The core JavaScript language has become fairly stable in Netscape 3.0. However, the final JavaScript specification is still pending and plenty of features are still being tuned and added. Despite the beta status of JavaScript, tremendous numbers of people are already using it, and Netscape is offering it freely to the market in an attempt to create a standard.

What is JavaScript?

What is JavaScript and what does it actually do? It may be natural to assume that JavaScript is a simplified version of Java, the programming language from Sun Microsystems, but this is not the case. As a matter of fact, other than an incomplete syntactic resemblance and the ability of both languages to deliver “executable content” over networks, JavaScript and Java are entirely unrelated.

JavaScript is a simple, interpreted programming language. Client-side JavaScript is JavaScript embedded into HTML Web pages. It allows “executable content” to be distributed over the Internet. (Currently the only JavaScript-enabled browsers are Netscape versions 2.0 and greater, and Microsoft Internet Explorer version 3.0 or greater). The JavaScript programs used in this project are all client-side JavaScript.
Server-side JavaScript provides an alternative to CGI (Common Gateway Interface) scripts but goes a step beyond: the code is embedded directly within HTML pages and allows executable server-side scripts to be intermixed with Web content. Server-side JavaScript dynamically generates HTML that is displayed by the client. Server-side JavaScript is not covered by this report.

What you can do with JavaScript

Here’s an overview of some of the things you can do with JavaScript:

1. Control the appearance and content of HTML documents. You can write arbitrary HTML code into a document as the document is being parsed by the browser. You can also use JavaScript Document object to generate documents entirely from scratch (Example: like check1.js, check2.js, check3.js, check4.js in this project).

2. Control the behavior of the browser. For example, the Window object supports methods (a function/subroutine in JavaScript phrase) to pop up dialog boxes, to create and open/close entirely new browser windows, etc.

3. Interact with document content. The JavaScript Document object, and the objects it contains, allow programs to read, and sometimes interact with, portions of the documents. It is not possible to read the actual text itself, but, for example, it is possible to obtain a list of all hypertext links in a document. By far the most important capability for interacting with document contents is provided by the Form object, and by the Form element objects it can contain: the Button, Checkbox, Hidden, Password, Radio, Reset, Select, Submit, Text, and Textarea objects. These objects allow you to read and write the values of any input element in any form in the document.

4. Interact with the user. An important feature of JavaScript is the ability to define “even handlers” - arbitrary pieces of code to be executed when a particular event occurs (usually a user action). JavaScript can trigger any kind of action in response to user events. For example, code could be written to display a special message in the status line when the user positions the mouse over a hypertext link, or to pop up a confirmation dialog box when the user submits an important form.

5. Read and write cookie values, and dynamically generate HTML based on the value of cookies. (Not covered in this report)
6. Perform arbitrary (mathematical) computation. It also simplifies the process of computing and working with dates and times. (Example: function lastModifiedDate(a) embedded in every major HTML files in this project).

These are just a few of JavaScript's many capabilities. JavaScript can be used to greatly enhance the HTML code.

**How to use JavaScript in HTML**

It is not difficult to incorporate JavaScript code into a Web page. You do not need to compile JavaScript source code. JavaScript source codes go right into the HTML of Web pages, where you want something intelligent to happen.

Here is the guide for placing the JavaScript elements where they should go. Generally, JavaScript functions go in between the `<HEAD>` and the `</HEAD>`, preceded by `<SCRIPT LANGUAGE="JavaScript">`, and followed by `</SCRIPT>`. The parts of the script that actually carry out the actions when the page is loaded go in the `<BODY>` part of the page, but still need to be set aside with the `<SCRIPT>` tag. Sections of script that respond to specific form entries go in the `<INPUT>` tag, with special attributes such as ONMOUSEOVER.

For maximum compatibility with older Web browsers, you can put the old comment tag `<!-- just after the <SCRIPT> tag, and put --> just before </SCRIPT>`. This will hide the script from any browser too old to recognize the `<SCRIPT>` tag.

You can also put JavaScript into a separate file by putting the name of that file in a SRC attribute within the `<SCRIPT>` tag, like this in pretest.html of this project:

```
<script language="JavaScript" src="/Library/check1.js"></script>
```

This is especially handy when you are using a script that may be too big to put in a HTML properly.
Example: blueball.js

File type: JavaScript source file
Location: domain/Library/blueball.js
Usage: highlight bullet in front of link when user put mouse cursor over the link.

Example on screen:

before*:  ● What is the Internet and what is a network?

after:    ● What is the Internet and what is a network?

---

```javascript
/*----------------------------------------------
Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk)
Free to use, include this header! email to tailongk@u.arizona.edu
----------------------------------------------*/

function rollsub1(imageName) {
    imageSource = "blueballon.gif";
    document.images[imageName].src = "images/" + imageSource;
    return true;
}

function turnoffsub1(imageName) {
    imageSource = "blueball.gif";
    document.images[imageName].src = "images/" + imageSource;
    return true;
}

*/
```

*This interface on Netscape Navigator 4.6 may be different from other version or browsers.*
**Example: lastModifiedDate()**

Location: embedded in most HTML files

Usage: printout on screen time and date the HTML file, in which this JavaScript function embedded, is modified by Web master.

Example on screen:

```
Last modified on: Thursday, May 27, 1999 10:06:04
```

```
<html>
<head>
<title>Computer Application for Thesis Preparation</title>
<meta NAME="Author" CONTENT="tailongk@u.arizona.edu">
<!................................................................................................................................................>
<!— Script Author: Tailong Ke ( http://www.u.arizona.edu/~tailongk )-->  
<!— Free to use, include this header! email to tailongk@u.arizona.edu -->
<!....................................................................................................................>
<script language="JavaScript">
function lastModifiedDate() {
  document.write("Last modified on: ")

  document.write(document.lastModified)
}
</script>
</head>
<body bgcolor="black" text="white" link="#bbbbff" vlink="#bbbbff">
```

* This interface on Netscape Navigator 4.6 maybe different from other version of browsers.
Example: check1.js

Filetype: JavaScript source file
Location: domain/Library/check1.js
Usage: calculate user's total score and lead user to a study area according to user's score
Example on screen:

before*

- Binary
- Together
- Don't know

DONE (Computer will guide you to a learning area; It's easier, faster and you'll feel better.)
SCORE (Show you which one you choose wrong. Browser Version 4.0 or later request.)

After user completes pretest, user will find two buttons at bottom. One is 'DONE', the other is 'SCORE'. If user wants computer to guide him/her to a learning area, user will click DONE. This link also is a fast lane.

after*

- Binary
- Together
- Don't know

[JavaScript Application]

You are ready to go to General topics learning area.

DONE (Computer will guide you to a learning area; It's easier, faster and you'll feel better.)
SCORE (Show you which one you choose wrong. Browser Version 4.0 or later request.)

If user clicks button 'DONE', it will call JavaScript function checkAnswer() in JavaScript source file check1.js. First, function checkAnswer() checks which answer is correct. Then associated points are added to the total score. Finally, function checkAnswer() will use the score to check which level it should lead user to.
Data flow Chart:

```
if (document.forms[0].Q1[1].checked) {
  correctNum = correctNum + 5;
}
else if ((correctNum >= 1)&&(correctNum <= 5)) {
  alert("You are ready to go to Basic concepts learning area.");
  window.parent.location="basic_index.html";
}
else if ((correctNum >= 6)&&(correctNum <= 10)) {
  alert("You are ready to go to Advanced concepts learning area.");
  window.parent.location="advanced_index.html";
}
else {
  alert("You are ready to go to Expert concepts learning area.");
  window.parent.location="expert_index.html";
}
```

```javascript
function check1() {
  if (document.forms[0].Q1[1].checked) {
    correctNum = correctNum + 5;
  }
  else if ((correctNum >= 1)&&(correctNum <= 5)) {
    alert("You are ready to go to Basic concepts learning area.");
    window.parent.location="basic_index.html";
  }
  else if ((correctNum >= 6)&&(correctNum <= 10)) {
    alert("You are ready to go to Advanced concepts learning area.");
    window.parent.location="advanced_index.html";
  }
  else {
    alert("You are ready to go to Expert concepts learning area.");
    window.parent.location="expert_index.html";
  }
}
```
This function is called when user clicks 'DONE' after finishing pretest

JavaScript variable correctNum will store user's total score

Check whether the answer of question#1 is right
add the points of Question#1 to total score

Check Question #2

Check Question #3

Check Question #4

Check Question #5

Check Question #6

Check Question #7

Check Question #8

Check Question #9

Check Question #10

SCRIPT

/**************************************************************************
 * Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk)
 * Free to use, include this header! email to tailongk@u.arizona.edu
 ****************************************************************************/

function checkAnswer() {

var correctNum = 0;

if (document.forms[0].Q1[1].checked)
correctNum = correctNum + 5;

if (document.forms[1].Q2[2].checked)
correctNum = correctNum + 1;

if (document.forms[2].Q3[0].checked)
correctNum = correctNum + 5;

if (document.forms[3].Q4[2].checked)
correctNum = correctNum + 1;

if (document.forms[4].Q5[3].checked)
correctNum = correctNum + 5;

if (document.forms[5].Q6[0].checked)
correctNum = correctNum + 10;

if (document.forms[6].Q7[1].checked)
correctNum = correctNum + 1;

if (document.forms[7].Q8[3].checked)
correctNum = correctNum + 10;

if (document.forms[8].Q9[3].checked)
correctNum = correctNum + 5;

if (document.forms[9].Q10[1].checked)
correctNum = correctNum + 10;
else ;
Check whether the total score is less than 1

```
if (correctNum < 1) {
    window.location="suggestion_low.html";
}
```

Change the frame's location (redirection) to a new Web page. In this case the user is directed to come back later after getting more background.

Check whether the total score is greater than or equal to 1 and less than or equal to 5. If so, redirects user to Basic concepts learning area.

```
else if ((correctNum >= 1) && (correctNum <= 5)) {
    alert("You are ready to go to Basic concepts learning area. ");
    window.parent.location="basic_index.html";
}
```

JavaScript command will pop up a dialog (see screen dump here* )

User should click 'OK' to confirm the alert. Then the whole browser window will redirect to a new Web page.

```
'parent' loads the link over the parent frame if the current frame is nested within other frames
```

Check whether the total score is greater than or equal to 6 and less than or equal to 15. If so, redirects user to General concepts learning area.

```
else if ((correctNum >= 6) && (correctNum <= 15)) {
    alert("You are ready to go to General topics learning area. ");
    window.parent.location="general_index.html";
}
```

* This interface on Netscape Navigator 4.6 may be different from other versions or browsers.
Check whether the total score is greater than or equal to 16 and less than or equal to 43. Then redirect user to Advanced concepts learning area.

Check whether the total score is greater than 43. Then user is informed that it is not necessary to study this module.

Until here the JavaScript program has already covered all possibility of the total score, so there is nothing to do about other impossible situations.

```javascript
else if ((correctNum >= 16) && (correctNum <= 43)) {
    alert("You are ready to go to Advanced topics learning area.");
    window.parent.location="advanced_index.html";
}
else if (correctNum > 43) {
    window.location="suggestion_high.html";
}
else ;
/*End of function check1a*/
Example: check1a.js

File type: JavaScript source file
Location: domain/Library/check1a.js
Usage: calculate user's total score and display which of user's answers are wrong. Provide options for user to peek score, go to learning area, and re-take the pretest. Example on screen:

before*:
- Binary
- Together
- Don't know

DONE (Computer will guide you to a learning area; it's easier, faster and you'll feel better.)
SCORE (Show you which one you choose wrong. Browser Version 4.0 or later request.)

After user completes pretest, user will find two buttons at bottom. One is ‘DONE’, the other is ‘SCORE’. If user want to peek the score, he/she will click ‘SCORE’. This link gives user a break before he/she goes to the study area.

after*:

You missed these questions:
(the X means your answer is wrong; no red-mark means you didn't answer the question)

2. An Internet address with a .com at the end of the address would indicate which kind of Web site?
- a military site
- a University site
- a business site
- a site in a communist country

5. The term "search syntax" refers to:
- Alta Vista
- the proper etiquette for using search tools
- searching for a Web browser
- the way that search words are entered

If user clicks button ‘SCORE’, it will call JavaScript function checkAnswer() in JavaScript source file check1a.js. First, function checkAnswer() checks which answer is correct. Then it displays which of the user's answers are wrong.
You missed these questions:
(the ✗ means your answer is wrong; no red-mark means you didn’t answer the question)

2. An Internet address with a .com at the end of the address would indicate

If user clicks button ‘Check your score’, it will call JavaScript in-line function
javascript:alert("'YOUR_SCORE_IS_'+"correctNum+"'OUT_OF_53'+'
in JavaScript source file check1a.js.

JavaScript ‘alert’ function will pop up a message box, which will show how many
points users earned out of the total points possible for the pretest.

You missed these questions:
(the % means your answer is wrong; no red-mark means you didn’t answer the question)

2. An Internet address with a .com at the end of the address would indicate

If user clicks ‘Go to learning area’, computer will guide him/her to a learning area
according how many points this user earned*

You missed these questions:
(the ✗ means your answer is wrong; no red-mark means you didn’t answer the question)

2. An Internet address with a .com at the end of the address would indicate

If user clicks ‘Try pretest again’, it will simply lead user to the pretest page again. In
this case, the pretest page will automatically be refreshed*.

* This interface on Netscape Navigator 4.6 maybe different from other version or browsers.
function checkAnswer1() {
    var correctNum = 0;
    var a1, a2, a3, a4, a5, a6, a7, a8, a9, a10;
    var nextLink;
    var xy = navigator.appVersion;
    appv = xy.substring(0, 4);
    if (document.forms[0].Q1[0].checked) a1 = 0;
    if (document.forms[0].Q1[1].checked) {a1 = 1; correctNum = correctNum + 5;}
    if (document.forms[0].Q1[2].checked) a1 = 2;
    if (document.forms[0].Q1[3].checked) a1 = 3;
Check if Question#2’s
3rd answer, which is
correct, is chosen. If so,
change a2’s value to 2 to
indicated 3rd answer was
chosen by user. Then add
question’s points to total
score.

if (document.forms[1].Q2[0].checked) a2 = 0;
if (document.forms[1].Q2[1].checked) a2 = 1;
if (document.forms[1].Q2[2].checked) {a2 = 2; correctNum = correctNum + 1;}
if (document.forms[1].Q2[3].checked) a2 = 3;

Check if Question#3’s
1st answer, which is
correct, is chosen. If so,
change a3’s value to 3 to
indicated 1st answer was
chosen by user. Then add
question’s points to total
score.

if (document.forms[2].Q3[0].checked) {a3 = 0; correctNum = correctNum + 5;}
if (document.forms[2].Q3[1].checked) a3 = 1;
if (document.forms[2].Q3[2].checked) a3 = 2;
if (document.forms[2].Q3[3].checked) a3 = 3;

Check if Question#4’s
3rd answer, which is
correct, is chosen. If so,
change a4’s value to 2 to
indicated 3rd answer was
chosen by user. Then add
question’s points to total
score.

if (document.forms[3].Q4[0].checked) a4 = 0;
if (document.forms[3].Q4[1].checked) a4 = 1;
if (document.forms[3].Q4[2].checked) {a4 = 2; correctNum = correctNum + 1;}
if (document.forms[3].Q4[3].checked) a4 = 3;

Check if Question#5’s
4th answer, which is
correct, is chosen. If so,
change a5’s value to 3 to
indicated 4th answer was
chosen by user. Then add
question’s points to total
score.

if (document.forms[4].Q5[0].checked) a5 = 0;
if (document.forms[4].Q5[1].checked) a5 = 1;
if (document.forms[4].Q5[2].checked) a5 = 2;
if (document.forms[4].Q5[3].checked) {a5 = 3; correctNum = correctNum + 5;}

Check if Question#6’s
1st answer, which is
correct, is chosen. If so,
change a6’s value to 0 to
indicated 1st answer was
chosen by user. Then add
question’s points to total
score.

if (document.forms[5].Q6[0].checked) {a6 = 0; correctNum = correctNum + 10;}
if (document.forms[5].Q6[1].checked) a6 = 1;
if (document.forms[5].Q6[2].checked) a6 = 2;
if (document.forms[5].Q6[3].checked) a6 = 3;
Check if Question#7's 2nd answer, which is correct, is chosen. If so, change a7’s value to 1 to indicated 2nd answer was chosen by user. Then add question’s points to total score.

```
if (document.forms[6].Q7[0].checked) a7 = 0;
if (document.forms[6].Q7[1].checked) {a7 = 1; correctNum = correctNum + 1;}
if (document.forms[6].Q7[2].checked) a7 = 2;
if (document.forms[6].Q7[3].checked) a7 = 3;
```

Check if Question#8’s 4th answer, which is correct, is chosen. If so, change a8’s value to 3 to indicated 4th answer was chosen by user. Then add question’s points to total score.

```
if (document.forms[7].Q8[0].checked) a8 = 0;
if (document.forms[7].Q8[1].checked) a8 = 1;
if (document.forms[7].Q8[2].checked) a8 = 2;
if (document.forms[7].Q8[3].checked) {a8 = 3; correctNum = correctNum + 10;}
```

Check if Question#9’s 4th answer, which is correct, is chosen. If so, change a9’s value to 3 to indicated 4th answer was chosen by user. Then add question’s points to total score.

```
if (document.forms[8].Q9[0].checked) a9 = 0;
if (document.forms[8].Q9[1].checked) a9 = 1;
if (document.forms[8].Q9[2].checked) a9 = 2;
if (document.forms[8].Q9[3].checked) {a9 = 3; correctNum = correctNum + 5;}
```

Check if Question#10’s 2nd answer, which is correct, is chosen. If so, change a10’s value to 1 to indicated 2nd answer was chosen by user. Then add question’s points to total score.

```
if (document.forms[9].Q10[0].checked) a10 = 0;
if (document.forms[9].Q10[1].checked) {a10 = 1; correctNum = correctNum + 10;}
if (document.forms[9].Q10[2].checked) a10 = 2;
if (document.forms[9].Q10[3].checked) a10 = 3;
```
if (correctNum < 1)
    {nextLink = "suggestion_low.html";}

else if ((correctNum >= 1) && (correctNum <= 5))
    {nextLink = "basic_index.html target=_top";}

else if ((correctNum >= 6) && (correctNum <= 15))
    {nextLink = "general_index.html target=_top";}

else if ((correctNum >= 16) && (correctNum <= 43))
    {nextLink = "advanced_index.html target=_top";}

else if (correctNum > 43)
    {nextLink = "suggestion_high.html";}

else:
Check whether user's browser is less than Netscape 4.0 or Internet Explorer 4.0. If so, then following commands are the same as in check1.js

```javascript
if (appv < 4) {
  if (correctNum < 1) {
    window.location = "suggestion_low.html";
  } else if ((correctNum >= 1) && (correctNum <= 5)) {
    alert("You are ready to go to Basic concepts learning area.");
    window.parent.location = "basic_index.html";
  } else if ((correctNum >= 6) && (correctNum <= 15)) {
    alert("You are ready to go to General topics learning area.");
    window.parent.location = "general_index.html";
  } else if ((correctNum >= 16) && (correctNum <= 43)) {
    alert("You are ready to go to Advanced topics learning area.");
    window.parent.location = "advanced_index.html";
  } else if (correctNum > 43) {
    window.location = "suggestion_high.html";
  }
} else {
  // Code for greater than or equal to Netscape 4.0 or Internet Explorer 4.0
  document.write("<body bgcolor=black text=white link=#bbbbff vlink=#bbbbff>");
  document.write("<div align=center><center>");
  document.write("<br>");
  document.write("<table border=0 width=500 height=30 cellspacing=4 cellpadding=1>");
```

If user's browser is greater than or equal to Netscape 4.0 or Internet Explorer 4.0. Then the following commands will generate a Web page on-fly.

This JavaScript command will write a line of HTML code on a HTML file which is generated on-fly. Here it defines the `<body>` tag.

Everything after `<center>` will be centered.

Create a table and define its width, height, etc.
JavaScript in-line code. When user clicks this link, a message box will show the total score. (These 4 lines should not be wrapped*)

Use nextLink as a variable.

Link back to pretest.html to let user try again.

Show the questions on which user made a mistake or does not choose not to answer.

Question#1's correct answer is 2nd answer. If user chose that one, nothing will happen.

Otherwise (User chose a wrong answer or does not answer any question) the question will be print out.

The 1st answer is wrong. If user chose that one, a red cross will be drawn in front of the answer.

* All lines of the color [ ] will appear as one line in source code, otherwise the JavaScript code will misfunction.
This answer is correct, a red cross will never be drawn in front of it.

The 3rd answer is wrong. If user chose that one, a red cross will be drawn in front of the answer.

The 1st answer is wrong. If user choose that one, a red cross will be drawn in front of the answer.

End of question#1

Question#2’s correct answer is 3rd answer.

if (a2==2) {} 
else {
  document.write("<tr bgcolor="#666666"><td><b>
  <font face=Arial, Helvetica, sans-serif>2. An Internet address with a .com at the end of the address would indicate which kind of Web site?</font></b>
  </td></tr>" );
  if (a2==0) document.write("<img src=./images/wrong.gif>" );
  document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a military site</font><br>" );
  if (a2==1) document.write("<img src=./images/wrong.gif>" );
  document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a University site</font><br>" );
  if (a2==3) document.write("<img src=./images/wrong.gif>" );
  document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a business site</font><br>" );
}

Question#3’s correct answer is 1st answer.

if (a3==0) {} 
else {
  document.write("<tr bgcolor="#666666"><td><b>
  <font face=Arial, Helvetica, sans-serif>3. Which of the following allows you to re-visit your favorite sites without entering an address or using a search tool?</font></b>
  </td></tr>" );
  if (a3==1) document.write("<img src=./images/wrong.gif>" );
  document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; an Internet search tool</font><br>" );
  if (a3==2) document.write("<img src=./images/wrong.gif>" );
  document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a successful search on the Internet</font><br>" );
  if (a3==3) document.write("<img src=./images/wrong.gif>" );
  document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a list of cowboy related sites on the Web</font></td></tr>" );
}
Question #4’s correct answer is 3rd answer.

```javascript
if (a3 == 1) document.write("<img src=../images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; bookmarks<br/>
");
if (a3 == 2) document.write("<img src=../images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; browsers<br/>
");
if (a3 == 3) document.write("<img src=../images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; addresses<br/>
");
```

Question #5’s correct answer is 4th answer.

```javascript
if (a4 == 2) {};
else {
    document.write("<b><font face=Arial, Helvetica, sans-serif>4. Which one is a name for a Web browser?</font></b></td>;
    if (a4 == 0) document.write("<img src=../images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Windows 98<br/>
");
if (a4 == 1) document.write("<img src=../images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Yahoo<br/>
");
if (a4 == 3) document.write("<img src=../images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Web composer<br/>
");
}
```

```javascript
if (a5 == 3) {};
else {
    document.write("<b><font face=Arial, Helvetica, sans-serif>5. The term &quot;search syntax&quot; refers to:</font></b></td>;
    if (a5 == 0) document.write("<img src=../images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Alta Vista<br/>
");
if (a5 == 1) document.write("<img src=../images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; the proper etiquette for using search tools<br/>
");
if (a5 == 2) document.write("<img src=../images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; searching for a Web browser<br/>
");
```
Question #6's correct answer is 1st answer.

```javascript
if (a6==0) {;
} else {
    if (a6==1) document.write("<img src=./images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; use <strong>Prefences</strong> through <strong>Edit</strong> menu</font><br>");
    if (a6==2) document.write("<img src=./images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; use <strong>.Page source</strong> through <strong>View</strong> menu</font><br>");
    if (a6==3) document.write("<img src=./images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; don't know</font><br>");
}
```

Question #7's correct answer is 1st answer.

```javascript
if (a7==0) {;
} else {
    if (a7==1) document.write("<img src=./images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Yahoo, Netscape, Alta Vista</font><br>");
    if (a7==2) document.write("<img src=./images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Internet Explorer, Lycos, Excite</font><br>");
    if (a7==3) document.write("<img src=./images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Infoseek, Lycos, Internet Explorer</font><br>");
}
```
Question #8’s correct answer is 4th answer.

```javascript
if (a8 == 3) {
} else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>8. Placing quotation marks ("" around a two word phrase in the Alta Vista search engine will cause the search tool to:</font><7b></ld>
</tr><tr><td>");
    if (a8 == 0) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;find nothing</font><br>");
    if (a8 == 1) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;find pages with the first word only</font><br>");
    if (a8 == 2) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;search for Web sites that have both of the words together on the page</font></td></tr>");
}
```

Question #9’s correct answer is 4th answer.

```javascript
if (a9 == 3) {
} else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>9. To save a text document from the Internet through a Web browser, use:\</font><7b></ld>
</tr><tr><td>");
    if (a9 == 0) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Print</font><br>");
    if (a9 == 1) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Save as through File menu</font><br>");
    if (a9 == 2) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;through View menu, bring out Page Source</font></td></tr>");
}
```

Question #10’s correct answer is 2nd answer.

```javascript
if (a10 == 1) {
} else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>10. To transfer an image on the Internet, which transfer mode do you need to use?\</font><7b></ld>
</tr><tr><td>");
```
function checkAnswer()
{
if (a10==0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;ASCII
</font><br>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Binary,
</font><br>");
if (a10==2) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Together
</font><br>");
if (a10==3) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Don't know
</font></td></tr>"peeduvhny
);}
document.write("<tr><td><p></td></tr>
};
document.write("</table></center></div></body></html>");
}
CHAPTER 7

JavaScript Source Code

The JavaScript source code list:
   blueball.js
   lastModifiedDate()
   check1.js
   check1a.js
   check2.js
   check2a.js
   check3.js
   check3a.js
   check4.js
   check4a.js
blueball.js

/*************************************************************/
Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk)
Free to use, include this header! email to tailongk@u.arizona.edu
***************************************************************************/

function rollsub1(imageName) {
    imageSource = "blueballon.gif";
    document.images[imageName].src = "images/" + imageSource;
    return true;
} /*End of rollsub1*/

function turnoffsub1(imageName) {
    imageSource = "blueball.gif";
    document.images[imageName].src = "images/" + imageSource;
    return true;
} /*End of turnoffsub1*/

lastModifiedDate()

/*****************************/
Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk)
Free to use, include this header! email to tailongk@u.arizona.edu
***************************************************************************/

function lastModifiedDate(a) {
    document.write("Last modified on: ")
    document.write(document.lastModified)
} /*End of lastModifiedDate*/

check1.js

/*****************************/
Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk)
Free to use, include this header! email to tailongk@u.arizona.edu
***************************************************************************/

function checkAnswer() {

```javascript
var correctNum=0;
if (document.forms[0].Q1[1].checked)
correctNum = correctNum + 5;
if (document.forms[1].Q2[2].checked)
correctNum = correctNum + 1;
if (document.forms[2].Q3[0].checked)
correctNum = correctNum + 5;
if (document.forms[3].Q4[2].checked)
correctNum = correctNum + 1;
if (document.forms[4].Q5[3].checked)
correctNum = correctNum + 5;
if (document.forms[5].Q6[0].checked)
correctNum = correctNum + 10;
if (document.forms[6].Q7[1].checked)
correctNum = correctNum + 1;
if (document.forms[7].Q8[3].checked)
correctNum = correctNum + 10;
if (document.forms[8].Q9[3].checked)
correctNum = correctNum + 5;
if (document.forms[9].Q10[1].checked)
correctNum = correctNum + 10;
else ;

if (correctNum < 1) {
    window.location="suggestion_low.html";
}
else if ((correctNum >= 1)&&(correctNum <= 5)) {
    alert ("You are ready to go to Basic concepts learning area.");
    window.parent.location="basic_index.html";
}
else if ((correctNum >= 6)&&(correctNum <= 15)) {
    alert ("You are ready to go to General topics learning area.");
    window.parent.location="general_index.html";
}
else if ((correctNum >= 16)&&(correctNum <= 43)) {
    alert ("You are ready to go to Advanced topics learning area.");
    window.parent.location="advanced_index.html";
}
else if (correctNum > 43) {
    window.location="suggestion_high.html";
}
else ;
```
function checkAnswer1() {
    var correctNum = 0;
    var a1, a2, a3, a4, a5, a6, a7, a8, a9, a10;
    var nextLink;
    var xy = navigator.appVersion;
    appv = xy.substring(0,4);

    if (document.forms[0].Q1[0].checked) a1 = 0;
    if (document.forms[0].Q1[1].checked) {a1 = 1; correctNum = correctNum + 5;}
    if (document.forms[0].Q1[2].checked) a1 = 2;
    if (document.forms[0].Q1[3].checked) a1 = 3;

    if (document.forms[1].Q2[0].checked) a2 = 0;
    if (document.forms[1].Q2[1].checked) a2 = 1;
    if (document.forms[1].Q2[2].checked) {a2 = 2; correctNum = correctNum + 1;}
    if (document.forms[1].Q2[3].checked) a2 = 3;

    if (document.forms[2].Q3[0].checked) {a3 = 0; correctNum = correctNum + 5;}
    if (document.forms[2].Q3[1].checked) a3 = 1;
    if (document.forms[2].Q3[2].checked) a3 = 2;
    if (document.forms[2].Q3[3].checked) a3 = 3;

    if (document.forms[3].Q4[0].checked) a4 = 0;
    if (document.forms[3].Q4[1].checked) a4 = 1;
    if (document.forms[3].Q4[2].checked) {a4 = 2; correctNum = correctNum + 1;}
    if (document.forms[3].Q4[3].checked) a4 = 3;

    if (document.forms[4].Q5[0].checked) a5 = 0;
    if (document.forms[4].Q5[1].checked) a5 = 1;
    if (document.forms[4].Q5[2].checked) a5 = 2;
    if (document.forms[4].Q5[3].checked) {a5 = 3; correctNum = correctNum + 5;}
}
if (document.forms[5].Q6[0].checked) {a6 = 0; correctNum = correctNum + 10;}
if (document.forms[5].Q6[1].checked) a6 = 1;
if (document.forms[5].Q6[2].checked) a6 = 2;
if (document.forms[5].Q6[3].checked) a6 = 3;

if (document.forms[6].Q7[0].checked) a7 = 0;
if (document.forms[6].Q7[1].checked) {a7 = 1; correctNum = correctNum + 1;}
if (document.forms[6].Q7[2].checked) a7 = 2;
if (document.forms[6].Q7[3].checked) a7 = 3;

if (document.forms[7].Q8[0].checked) a8 = 0;
if (document.forms[7].Q8[1].checked) a8 = 1;
if (document.forms[7].Q8[2].checked) a8 = 2;
if (document.forms[7].Q8[3].checked) {a8 = 3; correctNum = correctNum + 10;}

if (document.forms[8].Q9[0].checked) a9 = 0;
if (document.forms[8].Q9[1].checked) a9 = 1;
if (document.forms[8].Q9[2].checked) a9 = 2;
if (document.forms[8].Q9[3].checked) {a9 = 3; correctNum = correctNum + 5;}

if (document.forms[9].Q10[0].checked) a10 = 0;
if (document.forms[9].Q10[1].checked) {a10 = 1; correctNum = correctNum + 10;}
if (document.forms[9].Q10[2].checked) a10 = 2;
if (document.forms[9].Q10[3].checked) a10 = 3;

if (correctNum < 1) {nextLink = "suggestion_low.html";}
else if ((correctNum >= 1) && (correctNum <= 5)) {nextLink = "basic_index.html target=_top";}
else if ((correctNum >= 6) && (correctNum <= 15)) {nextLink = "general_index.html target=_top";}
else if ((correctNum >= 16) && (correctNum <= 43)) {nextLink = "advanced_index.html target=_top";}
else if (correctNum > 43) {nextLink = "suggestion_high.html";}
else;

if (appv < 4) {

if (correctNum < 1) {
    window.location="suggestion_low.html";
}
else if ((correctNum >= 1) && (correctNum <= 5)) {
    alert("You are ready to go to Basic concepts learning area.");
    window.parent.location="basic_index.html";
}

/***** START: Browser Version less than 4.0 ******/

if (correctNum < 1) {window.location="suggestion_low.html";
}
else if ((correctNum >= 1) && (correctNum <= 5)) {
    alert("You are ready to go to Basic concepts learning area.");
    window.parent.location="basic_index.html";
else if ((correctNum >= 6) && (correctNum <= 15)) {
    alert ("You are ready to go to General topics learning area.");
    window.parent.location = "general_index.html";
}
else if ((correctNum >= 16) && (correctNum <= 43)) {
    alert ("You are ready to go to Advanced topics learning area.");
    window.parent.location = "advanced_index.html";
}
else if (correctNum > 43) {
    window.location = "suggestion_high.html";
}
else {
    /******** END: Browser Version less than 4.0 ********/
}
else {
    /******** START: Browser Version 4.0 or greater ********/
    document.write("<body bgcolor=black text=white link=#bbbbff vlink=#bbbbff>");
    document.write("<div align=center><center>\n    document.write("<table border=0 width=500 height=30 cellspacing=4 cellpadding=1>\n    /******** Top button #1 : Check your score *********/
    document.write("<tr align=center><td bgcolor=#4848aa><b>
        <a href=javascript:alert("YOUR_SCORE_IS_' + correctNum + '_OUT_OF_53")>
        <font face=Arial, Helvetica, sans-serif size=2 color=#aaaaaa>Check your score</font></a>
    </b></td>\n    /******** Top button #2 : Go to learning area *********/
    document.write("<a href=nextLink>Go to learning area</a>\n    /******** Top button #3 : Try pretest again *********/
    document.write("Try pretest again\n    document.write("You missed these questions:");
    document.write("(the <img src=../images/wrong.gif> means your answer is wrong;"};
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no red-mark means you didn't choose one)

/******* START : List all wrong answers and missed questions *******
/******* Question #1 *******
if (a1==1) {
} else {
    document.write("\n    1. When speaking of the Internet, "Yahoo" refers to?<\n    a series of networked computers\n    an Internet search tool\n    a successful search on the Internet\n    a list of cowboy related sites on the Web\n    "");
    if (a1==0) document.write("<img src=../images/wrong.gif>\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a series of networked computers</font><br>\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; an Internet search tool</font><br>\n    if (a1==2) document.write("<img src=./images/wrong.gif>\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a successful search on the Internet</font><br>\n    if (a1==3) document.write("<img src=./images/wrong.gif>\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a list of cowboy related sites on the Web</font><br>\n    document.write("<tr><td><p></td></tr>\n}

/******* Question #2 *******
if (a2==2) {
} else {
    document.write("\n    2. An Internet address with a .com at the end of the address would indicate which kind of Web site?<\n    a military site\n    a University site\n    a business site\n    a site in a communist country\n    "");
    if (a2==0) document.write("<img src=./images/wrong.gif>\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a military site</font><br>\n    if (a2==1) document.write("<img src=./images/wrong.gif>\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a University site</font><br>\n    if (a2==3) document.write("<img src=./images/wrong.gif>\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a business site</font><br>\n    if (a2==3) document.write("<img src=./images/wrong.gif>\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; a site in a communist country\n    "");
    document.write("<tr><td><p></td></tr>\n}

/******* Question #3 *******
if (a3==0) {

else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
3. Which of the following allows you to re-visit your favorite sites without entering an address or
using a search tool?:</font></b></td></tr><tr><td>\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; bookmarks</font><br>\n    if (a3==1) document.write("<img src=../images/wrong.gif>"个百分数;);\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; browsers</font><br>\n    if (a3==2) document.write("<img src=../images/wrong.gif>"个百分数;);\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; addresses</font><br>\n    if (a3==3) document.write("<img src=../images/wrong.gif>"个百分数;);\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; search engines</font>\n        (</td></tr>\n    document.write("</p></td><tr></tr>\n}

/****** Question # 4******/
if (a4==2) {};
else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
4. Which one is a name for a Web browser?:</font></b></td></tr><tr><td>\n    if (a4==0) document.write("<img src=../images/wrong.gif>"个百分数;);\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Windows 98</font><br>\n    if (a4==1) document.write("<img src=../images/wrong.gif>"个百分数;);\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Yahoo</font><br>\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Navigator</font><br>\n    if (a4==3) document.write("<img src=../images/wrong.gif>"个百分数;);\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Web composer</font>\n        (</td></tr>\n    document.write("</p></td><tr></tr>\n}

/****** Question # 5******/
if (a5==3) {};
else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
5. The term &quot;search syntax&quot; refers to:</font></b></td></tr><tr><td>\n    if (a5==0) document.write("<img src=../images/wrong.gif>"个百分数;);\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Alta Vista</font><br>\n    if (a5==1) document.write("<img src=../images/wrong.gif>"个百分数;);\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; the proper etiquette for using search tools</font><br>\n    if (a5==2) document.write("<img src=../images/wrong.gif>"个百分数;);\n    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; &quot;search syntax&quot;</font>\n        (</td></tr>\n    document.write("</p></td><tr></tr>\n
"}
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**Question # 6**

6. To which menu would you go to set up Netscape 4.0?

<table>
<thead>
<tr>
<th>Option</th>
<th>Correct Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>use <code>&lt;i&gt;Preferences&lt;/i&gt;</code> through <code>&lt;strong&gt;Edit&lt;/strong&gt;</code> menu</td>
<td>✗</td>
</tr>
<tr>
<td>use <code>&lt;strong&gt;Page source&lt;/strong&gt;</code> through <code>&lt;strong&gt;View&lt;/strong&gt;</code> menu</td>
<td>✗</td>
</tr>
<tr>
<td>use <code>&lt;strong&gt;Page setup...&lt;/strong&gt; through </code>&lt;strong&gt;File&lt;/strong&gt;` menu</td>
<td>✗</td>
</tr>
<tr>
<td>don't know</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Question # 7**

7. Which of the following are names for Web search engines?

<table>
<thead>
<tr>
<th>Option</th>
<th>Correct Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yahoo, Netscape, AltaVista</td>
<td>✗</td>
</tr>
<tr>
<td>AltaVista, Excite, Lycos</td>
<td>✗</td>
</tr>
<tr>
<td>Internet Explorer, Lycos, Excite</td>
<td>✗</td>
</tr>
<tr>
<td>Infoseek, Lycos, Internet Explorer</td>
<td>✗</td>
</tr>
<tr>
<td>don't know</td>
<td>✓</td>
</tr>
</tbody>
</table>
8. Placing quotation marks (""") around a two word phrase in the Alta Vista search engine will cause the search tool to:

if (a8==0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;find nothing</font><br>");
if (a8==1) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;search for Web sites that have either of the words on the page</font><br>");
if (a8==2) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;find pages with the first word only</font><br>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;search for Web sites that have both of the words together on the page</font><br>");
document.write("<tr><td><p></td></tr>");

9. To save a text document from the Internet through a Web browser, use:

if (a9==0) document.write("<img src=./images/wrong.gif>");
document.write("<strong>Print</strong> button</font><br>");
if (a9==1) document.write("<img src=./images/wrong.gif>");
document.write("<strong>Save as</strong> through <strong>File</strong> menu</font><br>");
if (a9==2) document.write("<img src=./images/wrong.gif>");
document.write("<strong>Save as</strong> through <strong>File</strong> menu, change <strong>Save as type</strong> to <strong>.txt</strong></font><br>");
if (a9==3) {};
else {
document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>9. To save a text document from the Internet through a Web browser, use:</font></b></td></tr><tr><td>
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/******** Question # 10********/
if (a10==1) {;
} else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
        10. To transfer an image on the Internet, which transfer mode do you need to use?&lt;/font&gt;&lt;/b&gt;
        &lt;/td&gt;&lt;/tr&gt;&lt;/td&gt;");
    if (a10==0) document.write("&lt;img src=./images/wrong.gif&gt;");
    document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;ASCII&lt;/font&gt;&lt;br&gt;");
    if (a10==2) document.write("&lt;img src=./images/wrong.gif&gt;");
    document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;Binary&lt;/font&gt;&lt;br&gt;");
    if (a10==3) document.write("&lt;img src=./images/wrong.gif&gt;");
    document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;Together&lt;/font&gt;&lt;br&gt;");
    if (a10==4) document.write("&lt;img src=./images/wrong.gif&gt;");
    document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;Don't know&lt;/font&gt;&lt;/td&gt;&lt;/tr&gt;");
}

document.write("&lt;/table&gt;&lt;/center&gt;&lt;/div&gt;&lt;/body&gt;&lt;/html&gt;");
/******** END: Browser Version 4.0 or greater ********/
}
}
/*/End of checkAnswer()*/

check2.js

/**************************************************************************
Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk)
Free to use, include this header! email to tailongke@arizona.edu
**************************************************************************/

function checkAnswer() {
    var correctNum=0;
    if (document.forms[0].Q1[2].checked)
        correctNum = correctNum + 5;
    if (document.forms[1].Q2[3].checked)
        correctNum = correctNum + 1;
    if (document.forms[2].Q3[2].checked)
        correctNum = correctNum + 5;
    if (document.forms[3].Q4[2].checked)
        correctNum = correctNum + 1;
    if (document.forms[4].Q5[1].checked)
        correctNum = correctNum + 5;
    if (document.forms[5].Q6[1].checked)
        correctNum = correctNum + 10;
if (document.forms[6].Q7[3].checked)
correctNum = correctNum + 1;
if (document.forms[7].Q8[1].checked)
correctNum = correctNum + 10;
if (document.forms[8].Q9[3].checked)
correctNum = correctNum + 5;
if (document.forms[9].Q10[0].checked)
correctNum = correctNum + 10;
else ;

if (correctNum < 1) {
    window.location="suggestion_low.html";
}
else if (correctNum >= 1 )&&(correctNum <= 5)) {
    alert ("You are ready to go to Basic concepts learning area.");
    window.parent.location="basic_index.html";
}
else if (correctNum >= 6)&(correctNum <= 15)) {
    alert ("You are ready to go to General topics learning area.");
    window.parent.location="general_index.html";
}
else if (correctNum >= 16)&&(correctNum <= 43)) {
    alert ("You are ready to go to Advanced topics learning area.");
    window.parent.location="advanced_index.html";
}
else if (correctNum > 43) {
    window.location="suggestion_high.html";
}
else ;
}/*End of checkAnswer()*/

check2a.js

/******************************
Script Author: Tailong Ke ( http://www.u.arizona.edu/~tailongk )
Free to use, include this header! email to tailong@u.arizona.edu
******************************/

function checkAnswera() {
    var correctNum=0;
    var a1, a2, a3, a4, a5, a6, a7, a8, a9, a10;
    var nextLink;
    var xy = navigator.appVersion;
appv = xy.substring(0,4);

/******** START : Calculate the total score and keep user's answer in different variable ******/
if (document.forms[0].Q1[0].checked) a1 = 0;
if (document.forms[0].Q1[1].checked) a1 = 1;
if (document.forms[0].Q1[2].checked) {a1 = 2; correctNum = correctNum + 5;}
if (document.forms[0].Q1[3].checked) a1 = 3;

if (document.forms[1].Q2[0].checked) a2 = 0;
if (document.forms[1].Q2[1].checked) a2 = 1;
if (document.forms[1].Q2[2].checked) a2 = 2;
if (document.forms[1].Q2[3].checked) {a2 = 3; correctNum = correctNum + 1;}

if (document.forms[2].Q3[0].checked) a3 = 0;
if (document.forms[2].Q3[1].checked) a3 = 1;
if (document.forms[2].Q3[2].checked) {a3 = 2; correctNum = correctNum + 5;}
if (document.forms[2].Q3[3].checked) a3 = 3;

if (document.forms[3].Q4[0].checked) a4 = 0;
if (document.forms[3].Q4[1].checked) a4 = 1;
if (document.forms[3].Q4[2].checked) {a4 = 2; correctNum = correctNum + 1;}
if (document.forms[3].Q4[3].checked) a4 = 3;

if (document.forms[4].Q5[0].checked) a5 = 0;
if (document.forms[4].Q5[1].checked) {a5 = 1; correctNum = correctNum + 5;}
if (document.forms[4].Q5[2].checked) a5 = 2;
if (document.forms[4].Q5[3].checked) a5 = 3;

if (document.forms[5].Q6[0].checked) a6 = 0;
if (document.forms[5].Q6[1].checked) {a6 = 1; correctNum = correctNum + 10;}
if (document.forms[5].Q6[2].checked) a6 = 2;
if (document.forms[5].Q6[3].checked) a6 = 3;

if (document.forms[6].Q7[0].checked) a7 = 0;
if (document.forms[6].Q7[1].checked) a7 = 1;
if (document.forms[6].Q7[2].checked) a7 = 2;
if (document.forms[6].Q7[3].checked) {a7 = 3; correctNum = correctNum + 1;}

if (document.forms[7].Q8[0].checked) a8 = 0;
if (document.forms[7].Q8[1].checked) {a8 = 1; correctNum = correctNum + 10;}
if (document.forms[7].Q8[2].checked) a8 = 2;
if (document.forms[7].Q8[3].checked) a8 = 3;
if (document.forms[8].Q9[0].checked) a9 = 0;
if (document.forms[8].Q9[1].checked) a9 = 1;
if (document.forms[8].Q9[2].checked) a9 = 2;
if (document.forms[8].Q9[3].checked) {a9 = 3; correctNum = correctNum + 5;}

if (document.forms[9].Q10[0].checked) {a10 = 0; correctNum = correctNum + 10;}
if (document.forms[9].Q10[1].checked) a10 = 1;
if (document.forms[9].Q10[2].checked) a10 = 2;
if (document.forms[9].Q10[3].checked) a10 = 3;

if (correctNum < 1) {nextLink = "suggestion_low.html";
else if (((correctNum >= 1) &&(correctNum <= 5)) {nextLink = "basic_index.html target=_top";
else if (((correctNum >= 6) &&(correctNum <= 15)) {nextLink = "general_index.html target=_top";
else if (((correctNum >= 16) &&(correctNum <= 43)) {nextLink = "advanced_index.html target=_top";
else if (correctNum > 43) {nextLink = "suggestion_high.html";
else;

if (appv < 4) {
/******* START: Browser Version less than 4.0 *******/
if (correctNum < 1) {
  window.location="suggestion_low.html";
}
else if (((correctNum >= 1) &&(correctNum <= 5)) {
  alert ("You are ready to go to Basic concepts learning area.");
  window.parent.location="basic_index.html"
}
else if (((correctNum >= 6) &&(correctNum <= 15)) {
  alert ("You are ready to go to General topics learning area.");
  window.parent.location="general_index.html"
}
else if (((correctNum >= 16) &&(correctNum <= 43)) {
  alert ("You are ready to go to Advanced topics learning area.");
  window.parent.location="advanced_index.html"
}
else if (correctNum > 43) {
  window.location="suggestion_high.html"
}
else;
/******* END: Browser Version less than 4.0 *******/}
else {
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/***** START: Browser Version 4.0 or greater *****/
document.write("<body bgcolor=black text=white link=#bbbbff vlink=#bbbbff>");
document.write("<div align=center><center>");
document.write("<br>");
document.write("<table border=0 width=500 height=30 cellspacing=4 cellpadding=1>");
/***** Top button #1 : Check your score ******/
document.write("<tr align=center><td bgcolor=#4848aa><b>

<ahref=javascript:alert("\"YOUR_SCORE_IS\" + correctNum + \"_OUT_OF_53\"">Check your score</a></b></td>");

/***** Top button #2 : Goto learning area ******/
document.write("<td bgcolor=#4848aa><b><ahref="+nextLink+">Go to learning area</a></b></td>");

/***** Top button #3 : Try pretest again *******/
document.write("<td bgcolor=#4848aa><b><a href=pretest.html>

<font face=Arial, Helvetica, sans-serif size=2 color=#aaaaaa>Try pretest again</font></a></b></td>");

document.write("<table border=0 width=600 height=30 cellspacing=2 cellpadding=2>");
document.write("<tr><td><b>You missed these questions:

(the <img src=../images/wrong.gif> means your answer is wrong; no red-mark means you didn't choose one)</b></td></tr>"");

/***** START: List all wrong answers and missed questions ******/
/***** Question #1 ******/
if (a1==2) {
} else {

document.write("<tr bgcolor=#666666><td><font face=Arial, Helvetica, sans-serif>

1. What keys, when pressed together, are a shortcut for removing all font styles from selected text?</font></td>");

if (a1==0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Alt + Ctrl</font><br>");
if (a1==1) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Tab + Spacebar</font><br>");
if (a1==3) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Alt + Tab</font></td>");

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2. Font, font size, and font styles can be easily accessed from which toolbar?

- Standard Toolbars
- Drawing Toolbars
- Menu Bar
- Formatting Toolbars

3. What menu choices will open the appropriate dialog box for changing line spacing?

- File, then Page Setup
- File, then Properties
- Format, then Paragraph
- Format, then Font
//*********** Question # 4***********/
if (a4==2) {} else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
        4. Which of the following toolbar/ruler symbol describes tab stop type - i.e. Text flows to the right of the tab stop?
    </font></b></td></tr><tr><td>
        if (a4==0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
            &nbsp;&nbsp;<img src=images/tab_1.gif width=27 height=27></font><br>
        if (a4==1) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
            &nbsp;&nbsp;<img src=images/tab_2.gif width=27 height=27></font><br>
        if (a4==3) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
            &nbsp;&nbsp;<img src=images/tab_3.gif width=27 height=27></font><br>
    </td></tr>
    document.write("<tr><td><p></td></tr>";
}

//*********** Question # 5***********/
if (a5==1) {} else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
        5. Which toolbar button would you choose to set alternate headers and footers for odd and even pages?
    </font></b></td></tr><tr><td>
        if (a5==0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
            Insert Page Number</font><br>
        if (a5==2) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Page Setup</font><br>
        if (a5==3) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Insert number of Pages</font><br>
    </td></tr>
    document.write("<tr><td><p></td></tr>";
}

//*********** Question # 6***********/
if (a6==1) {}
else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
6. Which of the following icons from a toolbar of the Header/Footer means - Switch Between
Header and Footer?</font></b></td></tr><tr><td>"");
if (a6==0) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
<img src=images/hfl.gif width=25 height=25></font><br>
    if (a6==2) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
<img src=images/hf2.gif width=24 height=24></font><br>
    if (a6==3) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
<img src=images/hf3.gif width=24 height=25></font><br>
    if (a6==4) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
<img src=images/hf4.gif width=27 height=26></font></td></tr>"
else {
    document.write("<tr><td><p></td></tr>
    if (a7==3) {;
else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
7. Choose the correct sequential order of the following steps to copy text from one open document
to another:
<li>Click on the Copy button.</li>
<li>Click on the Paste button.</li>
<li>Choose Window from the menu and toggle to the document to be copied into.</li>
<li>Select the text to be copied.</li>
<li>Place the insertion point where you wish to place the copied text</li>
</font></b></td></tr><tr><td>"
    if (a7==0) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; 1,2,3,4,5</font><br>
    if (a7==1) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; 2,1,3,4,5</font><br>
    if (a7==2) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; 3,4,2,5,1</font><br>
    if (a7==3) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; 4,1,3,5,2</font></td></tr>"
    if (a7==4) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; 5,2,1,3,4</font></td></tr>"
}

/********** Question # 8**********/ if (a8==1) {;
else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
8. Which icon means - view Multiple Pages?</font></b></td></tr><tr><td>");
}
if (a8==0) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; "
<font src=images/pp1.gif width=24 height=23></font><br>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; "
<font src=images/pp2.gif width=24 height=25></font><br>");
if (a8==2) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; "
<font src=images/pp3.gif width=24 height=24></font><br>");
if (a8==3) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; "
<font src=images/pp4.gif width=25 height=25></font></td></tr>");
document.write("<tr><td><p></td></tr>");
}

/********** Question # 9**********/
if(a9—3) {};
else {
document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>9. Which is correct about these paragraph alignment types and the appropriate toolbar button?
</font></b></td></tr><tr><td>
if (a9==0) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Centered</font><br>");
if (a9==1) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Right-aligned</font><br>");
if (a9==2) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Left-aligned</font><br>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Justified</font></td></tr>");
document.write("<tr><td><p></td></tr>");
}

/********** Question # 10**********/
if(a10==0) {};
else {
document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>10. Which keys constitute the keyboard shortcut for opening Word's thesaurus?</font></b></td></tr><tr><td>
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Shift + F7</font><br>");
if (a10==1) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Shift + Alt</font><br>");
if (a10==2) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Alt + F1</font><br>");
if (a10==3) document.write("<img src=../images/wrong.gif>");
function checkAnswer() {
    var correctNum=0;
    if (document.forms[0].Q1[1].checked) 
        correctNum = correctNum + 5;
    if (document.forms[1].Q2[0].checked) 
        correctNum = correctNum + 5;
    if (document.forms[2].Q3[2].checked) 
        correctNum = correctNum + 1;
    if (document.forms[3].Q4[3].checked) 
        correctNum = correctNum + 1;
    if (document.forms[4].Q5[3].checked) 
        correctNum = correctNum + 10;
    if (document.forms[5].Q6[2].checked) 
        correctNum = correctNum + 5;
    if (document.forms[6].Q7[3].checked) 
        correctNum = correctNum + 5;
    if (document.forms[7].Q8[1].checked) 
        correctNum = correctNum + 1;
    if (document.forms[8].Q9[2].checked) 
        correctNum = correctNum + 10;
    if (document.forms[9].Q10[3].checked) 
        correctNum = correctNum + 10;
    else;

    if (correctNum < 1) {
        window.location="suggestion_low.html";
    }
```javascript
} else if ((correctNum >= 1) && (correctNum <= 5)) {
    alert("You are ready to go to Basic concepts learning area.");
    window.parent.location="basic_index.html";
} else if ((correctNum >= 6) && (correctNum <= 15)) {
    alert("You are ready to go to General topics learning area.");
    window.parent.location="general_index.html";
} else if ((correctNum >= 16) && (correctNum <= 43)) {
    alert("You are ready to go to Advanced topics learning area.");
    window.parent.location="advanced_index.html";
} else if (correctNum > 43) {
    window.location="suggestion_high.html";
} else;
} /*End of checkAnswer()*/

check3a.js

/****************************************************************************
Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk)
Free to use, include this header! email to tailongk@u.arizona.edu
****************************************************************************/

function checkAnsweraQ() {
    var correctNum = 0;
    var a1, a2, a3, a4, a5, a6, a7, a8, a9, a10;
    var nextLink;
    var xy = navigator.appVersion;
    appv = xy.substring(0, 4);

    /*********************************************************************/
    if (document.forms[0].Q1[0].checked) a1 = 0;
    if (document.forms[0].Q1[1].checked) {a1 = 1; correctNum = correctNum + 5;}
    if (document.forms[0].Q1[2].checked) a1 = 2;
    if (document.forms[0].Q1[3].checked) a1 = 3;

    if (document.forms[1].Q2[0].checked) {a2 = 0; correctNum = correctNum + 5;}
    if (document.forms[1].Q2[1].checked) a2 = 1;
    if (document.forms[1].Q2[2].checked) a2 = 2;
```
if (document.forms[1].Q2[3].checked) a2 = 3;
if (document.forms[1].Q2[4].checked) a2 = 4;

if (document.forms[2].Q3[0].checked) a3 = 0;
if (document.forms[2].Q3[1].checked) a3 = 1;
if (document.forms[2].Q3[2].checked) {a3 = 2; correctNum = correctNum + 1;}
if (document.forms[2].Q3[3].checked) a3 = 3;

if (document.forms[3].Q4[0].checked) a4 = 0;
if (document.forms[3].Q4[1].checked) a4 = 1;
if (document.forms[3].Q4[2].checked) a4 = 2;
if (document.forms[3].Q4[3].checked) {a4 = 3; correctNum = correctNum + 1;}

if (document.forms[4].Q5[0].checked) a5 = 0;
if (document.forms[4].Q5[1].checked) a5 = 1;
if (document.forms[4].Q5[2].checked) a5 = 2;
if (document.forms[4].Q5[3].checked) {a5 = 3; correctNum = correctNum + 10;}
if (document.forms[4].Q5[4].checked) a5 = 4;

if (document.forms[5].Q6[0].checked) a6 = 0;
if (document.forms[5].Q6[1].checked) a6 = 1;
if (document.forms[5].Q6[2].checked) {a6 = 2; correctNum = correctNum + 5;}
if (document.forms[5].Q6[3].checked) a6 = 3;

if (document.forms[6].Q7[0].checked) a7 = 0;
if (document.forms[6].Q7[1].checked) a7 = 1;
if (document.forms[6].Q7[2].checked) a7 = 2;
if (document.forms[6].Q7[3].checked) {a7 = 3; correctNum = correctNum + 5;}

if (document.forms[7].Q8[0].checked) a8 = 0;
if (document.forms[7].Q8[1].checked) {a8 = 1; correctNum = correctNum + 1;}
if (document.forms[7].Q8[2].checked) a8 = 2;
if (document.forms[7].Q8[3].checked) a8 = 3;

if (document.forms[8].Q9[0].checked) a9 = 0;
if (document.forms[8].Q9[1].checked) a9 = 1;
if (document.forms[8].Q9[2].checked) {a9 = 2; correctNum = correctNum + 10;}
if (document.forms[8].Q9[3].checked) a9 = 3;

if (document.forms[9].Q10[0].checked) a10 = 0;
if (document.forms[9].Q10[1].checked) a10 = 1;
if (document.forms[9].Q10[2].checked) a10 = 2;
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```javascript
if (document.forms[9].Q10[3].checked) {a10 = 3; correctNum = correctNum + 10;}

if (correctNum < 1) {nextLink = "suggestion_low.html";}
else if ((correctNum >= 1) && (correctNum <= 5)) {nextLink = "basic_index.html target=_top";}
else if ((correctNum >= 6) && (correctNum <= 15)) {nextLink = "general_index.html target=_top";}
else if ((correctNum >= 16) && (correctNum <= 43)) {nextLink = "advanced_index.html target=_top";}
else if (correctNum > 43) {nextLink = "suggestion_high.html";}
else ;

if (appv < 4) {

/********** START: Browser Version less than 4.0 **********/
if (correctNum < 1) {
  window.location="suggestion_low.html";
}
else if ((correctNum >= 1) && (correctNum <= 5)) {
  alert("You are ready to go to Basic concepts learning area.");
  window.parent.location="basic_index.html";
}
else if ((correctNum >= 6) && (correctNum <= 15)) {
  alert("You are ready to go to General topics learning area.");
  window.parent.location="general_index.html";
}
else if ((correctNum >= 16) && (correctNum <= 43)) {
  alert("You are ready to go to Advanced topics learning area.");
  window.parent.location="advanced_index.html";
}
else if (correctNum > 43) {
  window.location="suggestion_high.html";
}
else ;
/********** END: Browser Version less than 4.0 **********/
}
else {

/********** START: Browser Version 4.0 or greater **********/
document.write("<body bgcolor=black text=white link=#bbbbff vlink=#bbbbff><br>");
document.write("<div align=center><center>");
/*document.write("appv is " + appv);*/
document.write("<br>");
document.write("<table border=0 width=500 height=30 cellspacing=4 cellpadding=1>");

/********** Top button #1 : Check your score **********/
document.write("<tr align=center><td bgcolor=#4848aa><b>");
```
```
/********** Question # 2 **********/
if (a2==0) {};
else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
        2. To a imported image in a PageMaker document, you can NOT:?
        </font></b></td></tr>
    <tr><td>
        if (a2==0) document.write("<img src=./images/wrong.gif>");
        document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Change an image color</font>");
        if (a2==1) document.write("<img src=./images/wrong.gif>");
        document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Move an image</font>");
        document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Resize/reshape an image</font>");
        if (a2==3) document.write("<img src=./images/wrong.gif>");
        document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Crop an image</font>");
        if (a2==4) document.write("<img src=./images/wrong.gif>");
        document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; Duplicate an image</font>");
    };
}

/********** Question # 3 **********/
if (a3==2) {};
else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>
        3. What menu choices will open the appropriate dialog box for inserting and deleting pages?
    </font></b></td></tr>
    <tr><td>
        document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; <u>Element</u></font>");
        if (a3==1) document.write("<img src=./images/wrong.gif>");
        document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; <u>File</u></font>");
        if (a3==2) document.write("<img src=./images/wrong.gif>");
        document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; <u>Layout</u></font>");
        if (a3==3) document.write("<img src=./images/wrong.gif>");
        document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; <u>Window</u></font>");
        document.write("<tr><td><p></p></td></tr>
    }
}

/********** Question # 4 **********/
if (a4==3) {}
4. If you can not see the Tool box, what menu choices will open it?

```javascript
if (a4==0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;<u>Window</u>, then <u>Show Control Palette</u></font>\n
if (a4==1) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;<u>Window</u>, then <u>Show Layers</u></font>\n
if (a4==3) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;<u>View</u>, then <u>Show Rulers</u></font>\n
if (a4==4) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;<u>Window</u>, then <u>Show Tools</u></font>\n```

5. Which statements about Layer in PageMaker is correct?

```javascript
if (a5==0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Can be brought to the screen by using the keyboard shortcut, Ctrl-8</font>\n
if (a5==1) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Various parts of the document on different layers could be selectively shown or hidden</font>\n
if (a5==2) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Include editorial comments or criticism to a page without it being printed</font>\n
if (a5==3) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;All of the above</font>\n
if (a5==4) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;None of the above</font>\n```

/********** Question # 6 **********/
if (a6==2) {}
else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>

6. By using the <u>Pick</u> tool <img src=images/pick.jpg width=22 height=30>, you can
manipulate a text block in these ways EXCEPT:<</font></b></td></tr><tr><td>
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Moving a block</font><br>
    if (a6==1) document. write("<img src=../images/wrong.gif>"));
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Reshaping a block</font><br>
    if (a6==2) document. write("<img src=../images/wrong.gif>"));
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Changing text color</font><br>
    if (a6==3) document.write("<img src=../images/wrong.gif>"));
    document.write("&nbsp;&nbsp; Cut, copy, paste</font></p></td></tr>
    document.write("<tr><td><p></td></tr>
}

/******* Question # 7********/
if (a7==3) {};
else {
    document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>

7. Which are methods to select a number of items at once (Selecting multiple objects):
</b><ol><li>Hold the <b>Alt</b> key down as you select each item<li>Hold the <b>Shift</b> key
down as you select each item<li>With <img src=images/rectangle.jpg width=29 height=22>,
click and drag, creating a box around all the required objects<li>With <img src=images/pick.jpg
width=22 height=30>, click and drag, creating a box around all the required objects<li>With <img
src=images/polygon.jpg Width=27 height=24>, click and drag, creating a box around all the
required objects</ol><br>
    if (a7==0) document.write("<img src=../images/wrong.gif>");
    document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp; 1,4,5</font><br>
    if (a7==2) document.write("<img src=../images/wrong.gif>");
    document.write("&nbsp;&nbsp; 2,4</font></td></tr>
    document.write("<tr><td><p></td></tr>
}

/******* Question # 8********/
if (a8==1) {};
else {

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8. Which icon means - Cropping Tool?

```javascript
if (a8==0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
<img src=images/text.gif width=30 height=26></font><br>");
if (a8==1) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
<img src=images/cropping.gif width=30 height=26></font><br>");
if (a8==2) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
<img src=images/hand.gif width=30 height=24></font><br>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
<img src=images/pick.jpg width=22 height=30></font></td></tr>;
```

9. What is Kerning in PageMaker?

```javascript
if (a9==0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Kerning is the adjustment of space between pairs of <u>lines</u> in typesetting</font><br>");
if (a9==1) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Kerning is the adjustment of space between pairs of <u>words</u> in typesetting</font><br>");
if (a9==2) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Kerning is the adjustment of space between pairs of <u>characters</u> in typesetting</font><br>");
```
original graphics file?&lt;/font&gt;&lt;/b&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;hr&gt;\nif (a10==0) document.write("&lt;img src=../images/wrong.gif&gt;");
document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
&lt;u&gt;File&lt;/u&gt;, &lt;u&gt;Links Manager&lt;/u&gt;, in dialog click on name of image, select &lt;u&gt;Options&lt;/u&gt;.
Now deselect the &lt;u&gt;'Update automatically'</u&gt;&lt;/font&gt;&lt;br&gt;");
document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
&lt;u&gt;File&lt;/u&gt;, &lt;u&gt;Links Manager&lt;/u&gt;, in dialog click on name of image, select &lt;u&gt;Unlink&lt;/u&gt;.
Now deselect the &lt;u&gt;'Store copy in publication'</u&gt;&lt;/font&gt;&lt;br&gt;");
if (a10==2) document.write("&lt;img src=../images/wrong.gif&gt;");
document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
&lt;u&gt;File&lt;/u&gt;, &lt;u&gt;Links Manager&lt;/u&gt;, in dialog click on name of image, select &lt;u&gt;Update&lt;/u&gt;.
Now deselect the &lt;u&gt;'Alert before updating'</u&gt;&lt;/font&gt;&lt;br&gt;");
if (a10==3) document.write("&lt;img src=../images/wrong.gif&gt;");
document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
&lt;u&gt;File&lt;/u&gt;, &lt;u&gt;Links Manager&lt;/u&gt;, in dialog click on name of image, select &lt;u&gt;Options&lt;/u&gt;.
Now deselect the &lt;u&gt;'Store copy in publication'</u&gt;&lt;/font&gt;&lt;/td&gt;&lt;/tr&gt;");
document.write("&lt;tr&gt;&lt;td&gt;&lt;p&gt;&lt;/td&gt;&lt;/tr&gt;");
}

document.write("&lt;/table&gt;&lt;/center&gt;&lt;/div&gt;&lt;/body&gt;&lt;/html&gt;");
/******* END: Browser Version 4.0 or greater *******/
}
}/*End of checkAnswer()*/

check4.js

('</td><tr><td>');
if (a10==0) document.write("&lt;img src=../images/wrong.gif&gt;");
document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
&lt;u&gt;File&lt;/u&gt;, &lt;u&gt;Links Manager&lt;/u&gt;, in dialog click on name of image, select &lt;u&gt;Options&lt;/u&gt;.
Now deselect the &lt;u&gt;'Update automatically'</u&gt;&lt;/font&gt;&lt;br&gt;");
document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
&lt;u&gt;File&lt;/u&gt;, &lt;u&gt;Links Manager&lt;/u&gt;, in dialog click on name of image, select &lt;u&gt;Unlink&lt;/u&gt;.
Now deselect the &lt;u&gt;'Store copy in publication'</u&gt;&lt;/font&gt;&lt;br&gt;");
if (a10==2) document.write("&lt;img src=../images/wrong.gif&gt;");
document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
&lt;u&gt;File&lt;/u&gt;, &lt;u&gt;Links Manager&lt;/u&gt;, in dialog click on name of image, select &lt;u&gt;Update&lt;/u&gt;.
Now deselect the &lt;u&gt;'Alert before updating'</u&gt;&lt;/font&gt;&lt;br&gt;");
if (a10==3) document.write("&lt;img src=../images/wrong.gif&gt;");
document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
&lt;u&gt;File&lt;/u&gt;, &lt;u&gt;Links Manager&lt;/u&gt;, in dialog click on name of image, select &lt;u&gt;Options&lt;/u&gt;.
Now deselect the &lt;u&gt;'Store copy in publication'</u&gt;&lt;/font&gt;&lt;/td&gt;&lt;/tr&gt;");
document.write("&lt;tr&gt;&lt;td&gt;&lt;p&gt;&lt;/td&gt;&lt;/tr&gt;");
}

document.write("&lt;/table&gt;&lt;/center&gt;&lt;/div&gt;&lt;/body&gt;&lt;/html&gt;");
/******* END: Browser Version 4.0 or greater *******/
}
}/*End of checkAnswer()*/

check4.js

/*******************************************************************************/
Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk)
Free to use, include this header! email to tailongk@u.arizona.edu
*******************************************************************************/

function checkAnswer() {
  var correctNum=0;
  if (document.forms[0].Q1[3].checked)
    correctNum = correctNum + 5;
  if (document.forms[1].Q2[1].checked)
    correctNum = correctNum + 1;
  if (document.forms[2].Q3[2].checked)
    correctNum = correctNum + 5;
  if (document.forms[3].Q4[0].checked)
    correctNum = correctNum + 10;
  if (document.forms[4].Q5[3].checked)
    correctNum = correctNum + 5;
correctNum = correctNum + 1;
if (document.forms[5].Q6[2].checked)
correctNum = correctNum + 5;
if (document.forms[6].Q7[1].checked)
correctNum = correctNum + 1;
if (document.forms[7].Q8[0].checked)
correctNum = correctNum + 10;
if (document.forms[8].Q9[3].checked)
correctNum = correctNum + 5;
if (document.forms[9].Q10[2].checked)
correctNum = correctNum + 10;
else ;

if (correctNum < 1) {
  window.location="suggestion_low.html";
}
else if ((correctNum >= 1)&&(correctNum <= 5)) {
  alert ("You are ready to go to Basic concepts learning area. ");
  window.parent.location="basic_index.html";
}
else if ((correctNum >= 6)&&(correctNum <= 15)) {
  alert ("You are ready to go to General topics learning area. ");
  window.parent.location="general_index.html";
}
else if ((correctNum >= 16)&&(correctNum <= 43)) {
  alert ("You are ready to go to Advanced topics learning area. ");
  window.parent.location="advanced_index.html";
}
else if (correctNum > 43) {
  window.location="suggestion_high.html";
}
else ;
}/*End of checkAnswers()*/

check4a.js

/***************************************************************************/
function checkAnswer(a) {
  var correctNum = 0;
  var a1, a2, a3, a4, a5, a6, a7, a8, a9, a10;
  var nextLink;
  var xy = navigator.appVersion;
  appv = xy.substring(0, 4);

  //******** START : Calculate the total score and keep user's answer in different variables ********/
  if (document.forms[0].Q1[0].checked) a1 = 0;
  if (document.forms[0].Q1[1].checked) a1 = 1;
  if (document.forms[0].Q1[2].checked) a1 = 2;
  if (document.forms[0].Q1[3].checked) {a1 = 3; correctNum = correctNum + 5;}

  if (document.forms[1].Q2[0].checked) a2 = 0;
  if (document.forms[1].Q2[1].checked) {a2 = 1; correctNum = correctNum + 1;}
  if (document.forms[1].Q2[2].checked) a2 = 2;
  if (document.forms[1].Q2[3].checked) a2 = 3;

  if (document.forms[2].Q3[0].checked) a3 = 0;
  if (document.forms[2].Q3[1].checked) a3 = 1;
  if (document.forms[2].Q3[2].checked) {a3 = 2; correctNum = correctNum + 5;}
  if (document.forms[2].Q3[3].checked) a3 = 3;

  if (document.forms[3].Q4[0].checked) {a4 = 0; correctNum = correctNum + 10;}
  if (document.forms[3].Q4[1].checked) a4 = 1;
  if (document.forms[3].Q4[2].checked) a4 = 2;
  if (document.forms[3].Q4[3].checked) a4 = 3;

  if (document.forms[4].Q5[0].checked) a5 = 0;
  if (document.forms[4].Q5[1].checked) a5 = 1;
  if (document.forms[4].Q5[2].checked) a5 = 2;
  if (document.forms[4].Q5[3].checked) {a5 = 3; correctNum = correctNum + 1;}

  if (document.forms[5].Q6[0].checked) a6 = 0;
  if (document.forms[5].Q6[1].checked) a6 = 1;
  if (document.forms[5].Q6[2].checked) {a6 = 2; correctNum = correctNum + 5;}
  if (document.forms[5].Q6[3].checked) a6 = 3;

  if (document.forms[6].Q7[0].checked) a7 = 0;
if (document.forms[6].Q7[1].checked) {a7 = 1; correctNum = correctNum + 1;}
if (document.forms[6].Q7[2].checked) a7 = 2;
if (document.forms[6].Q7[3].checked) a7 = 3;

if (document.forms[7].Q8[0].checked) {a8 = 0; correctNum = correctNum + 10;}
if (document.forms[7].Q8[1].checked) a8 = 1;
if (document.forms[7].Q8[2].checked) a8 = 2;
if (document.forms[7].Q8[3].checked) a8 = 3;

if (document.forms[8].Q9[0].checked) a9 = 0;
if (document.forms[8].Q9[1].checked) a9 = 1;
if (document.forms[8].Q9[2].checked) a9 = 2;
if (document.forms[8].Q9[3].checked) {a9 = 3; correctNum = correctNum + 5;}

if (document.forms[9].Q10[0].checked) a10 = 0;
if (document.forms[9].Q10[1].checked) a10 = 1;
if (document.forms[9].Q10[2].checked) {a10 = 2; correctNum = correctNum + 10;}
if (document.forms[9].Q10[3].checked) a10 = 3;

if (correctNum < 1) {nextLink = "suggestion_low.html";}
else if (((correctNum >= 1) && (correctNum <= 5)) {nextLink = "basic_index.html target_top";}
else if (((correctNum >= 6) && (correctNum <= 15)) {nextLink = "general_index.html target_top";}
else if (((correctNum >= 16) && (correctNum <= 43)) {nextLink = "advanced_index.html target_top";}
else if (correctNum > 43) {nextLink = "suggestion_high.html";}
else;

if (appv < 4) {
    /******** START: Browser Version less than 4.0 ********/
    if (correctNum < 1) {
        window.location="suggestion_low.html";
    }
else if (((correctNum >= 1) && (correctNum <= 5)) {
    alert ("You are ready to go to Basic concepts learning area.");
    window.parent.location="basic_index.html";
    }
else if (((correctNum >= 6) && (correctNum <= 15)) {
    alert ("You are ready to go to General topics learning area.");
    window.parent.location="general_index.html";
    }
else if (((correctNum >= 16) && (correctNum <= 43)) {
    alert ("You are ready to go to Advanced topics learning area.");
    window.parent.location="advanced_index.html";
```javascript
else if (correctNum > 43) {
    window.location = "suggestion_high.html";
}
else {
    //******** END: Browser Version less than 4.0 ********/
}
else {
    //******** START: Browser Version 4.0 or greater ********/
    document.write("<body bgcolor=black text=white link=#bbbbff vlink=#bbbbff>");
    document.write("<div align=center><center>");
    document.write("<br>");
    document.write("<table border=0 width=500 height=30 cellspacing=4 cellpadding=1>");
    //******** Top button #1 : Check your score ********/
    document.write("<tr align=center><td bgcolor=#4848aa><b>
    <a href=javascript:alert("YOUR_SCORE_IS_'"+correctNum+_"OUT_OF_53"")>
    <font face=Arial, Helvetica, sans-serif size=2 color=#aaaaaa>Check your score</font></a></b></td>");
    //******** Top button #2 : Go to learning area ********/
    document.write("<td bgcolor=#4848aa><b><a href=nextLink+>
    <font face=Arial, Helvetica, sans-serif size=2 color=#aaaaaa>Go to learning area</font></a></b></td>");
    //******** Top button #3 : Try pretest again ********/
    document.write("<td bgcolor=#4848aa><b><a href=pretest.html>
    <font face=Arial, Helvetica, sans-serif size=2 color=#aaaaaa>Try pretest again</font></a></b></td>");
    document.write("</table><br>");
    document.write("<table border=0 width=600 height=30 cellspacing=2 cellpadding=2>");
    document.write("<tr><td><b><font face=Arial, Helvetica, sans-serif color=#777777>
    You missed these questions:<br> <font size=2>(the <img src=../images/wrong.gif> means your answer is wrong; no red-mark means you didn't choose one)</font></font></b></td></tr>");
    //******** START: List all wrong answers and missed questions ********/
    //******** Question # 1 ********/
    if (a1==3) {}
    else {
        document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif color=#777777>
        You missed these questions:
        <br>(the <img src=../images/wrong.gif> means your answer is wrong; no red-mark means you didn't choose one)</font></font></b></td>");
    }
```
1. Which way is correct to create an Email link, so other people can send Email to you?

```html
if (a1 == 0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;&nbsp;&nbsp;&lt;A HREF=HTTP://www.u.arizona.edu/~yourLoginName&gt;</font><br>
if (a1 == 1) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;&nbsp;&nbsp;&lt;A src=mailto:yourLoginName@u.arizona.edu&gt;</font><br>
if (a1 == 2) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;&nbsp;&nbsp;&lt;A HREF=mailto:yourLoginName@u.arizona.edu&gt;</font></td></tr>
```

2. Which statement is NOT correct about URL?

```html
if (a2 == 0) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;A URL is the most basic information about where a web page is located</font><br>
if (a2 == 2) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;A URL looks like: http://www.arizona.edu/</font><br>
if (a2 == 3) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;A URL includes information about which web server the page is stored on and the protocol we will use to fetch it.</font><br>
```

3. Which are the most popular graphics formats for the World Wide Web?

```html
if (a3 == 2) {};}
else {
document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>3. Which are the most popular graphics formats for the World Wide Web?</font></b></td></tr><tr><td>
```
if (a3==0) document.write("<img src=./images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;GIF, PDF</font><br>);
if (a3==1) document.write("<img src=./images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;JPG, PSD</font><br>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;GIF, JPG</font><br>);
if (a3==3) document.write("<img src=./images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;BMP, GIF</font></td></tr>);
document.write("<tr><td><p></td></tr>);
}

/********** Question # 4**********/
if (a4==0) {}
else {

document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>4. Which of these statements is NOT correct about Image Map?</font></b></td></tr><tr><td>"
if (a4==1) document.write("<img src=./images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Image Map can only specify a rectangular clickable area</font><br>);
if (a4==2) document.write("<img src=./images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Image Map can be Server-side or client-side</font><br>);
if (a4==3) document.write("<img src=./images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Within the &lt;Img&gt; tag, you need to use tag USEMAP</font><br>);
if (a4==4) document.write("<img src=./images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;Within the &lt;Map&gt; tag, you need to use tag AREA</font><br>);
}

/********** Question # 5**********/
if (a5==3) {}
else {

document.write("<tr bgcolor=#666666><td><b><font face=Arial, Helvetica, sans-serif>5. Which statement about HTML is NOT correct? </font></b></td></tr><tr><td>"
if (a5==0) document.write("<img src=./images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;The Web browser will &lt;u&gt;interpret&lt;/u&gt; the HTML document and display it</font><br>);
if (a5==1) document.write("<img src=./images/wrong.gif>);
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;HTML is Hyper Text Markup Language</font><br>);
if (a5==2) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
HTML can not be used on a variety of computer systems without change</font><br>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
HTML can be written by using a simple text editor</font></td></tr>);

if (a6==0) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Resize Web browser</font><br>");
if (a6==1) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Change browser's font size</font><br>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Using WIDTH and HEIGHT attributes of img tag</font><br>");
if (a6==3) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Can not control it</font></td></tr>);
}

/********* Question #6 *********/
if (a6==2) {};
else {

document.write("<b><font face=Arial, Helvetica, sans-serif>
6. How to control an image size on the Web?</font></b>");
if (a6==0) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Resize Web browser</font><br>");
if (a6==1) document.write("<img src=./images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Change browser's font size</font><br>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Using WIDTH and HEIGHT attributes of img tag</font><br>");
if (a6==3) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;
Can not control it</font></td></tr>);
}

/********* Question #7 *********/
if (a7==1) {};
else {

document.write("<b><font face=Arial, Helvetica, sans-serif>
7. Which tag should you use to display text at the top of the browser as well as to bookmark the
page?</font></b>");
if (a7==0) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;&lt;HTML&gt;</font><br>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;&lt;TITLE&gt;</font><br>");
if (a7==2) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;&lt;HEAD&gt;</font><br>");
if (a7==3) document.write("<img src=../images/wrong.gif>");
document.write("<font face=Arial, Helvetica, sans-serif>&nbsp;&nbsp;&lt;BODY&gt;</font>");
document.write("<tr><td><p></td></tr>");
}
8. Which one will never be part of your navigational strategy?  
   - Using Frames
   - Using Navigation Bars
   - Using Image maps
   - None of them

9. Which way is correct to add a image to a HTML document?  
   - `<Imghere=yourImageName.gif>`
   - `<img src=./images/wrong.gif>`
   - `<a here=yourImageName.gif>`
   - `<Imgsrc=yourImageName.gif>`

10. Which way is correct to add a image to a HTML document?  
    - `<Img src=./images/wrong.gif>`
    - `<a src=./images/wrong.gif>`
    - `<Img src=./images/wrong.gif>`
    - `<a src=./images/wrong.gif>`
10. Which explanation of this color definition - &lt;font color=#33aa99&gt; is correct?&lt;/font&gt;
   &lt;/b&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;
   if(a10==0) document.write("&lt;img src=../images/wrong.gif&gt;");
   document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
   this color will show exactly the same on different computer platforms&lt;/font&gt;&lt;br&gt;");
   if(a10==1) document.write("&lt;img src=../images/wrong.gif&gt;");
   document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
   &lt;b&gt;aa&lt;/b&gt; is the Symbol for Green color&lt;/font&gt;&lt;br&gt;");
   document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
   &lt;b&gt;33&lt;/b&gt; is the Hexadecimal numbering for Red color&lt;/font&gt;&lt;br&gt;");
   if(a10==3) document.write("&lt;img src=../images/wrong.gif&gt;");
   document.write("&lt;font face=Arial, Helvetica, sans-serif&gt;&nbsp;&nbsp;
   &lt;b&gt;99&lt;/b&gt; is the decimal numbering for blue color&lt;/font&gt;&lt;/td&gt;&lt;/tr&gt;");
   document.write("&lt;tr&gt;&lt;td&gt;&lt;p&gt;&lt;/td&gt;&lt;/tr&gt;");
}

document.write("&lt;/table&gt;&lt;/center&gt;&lt;/div&gt;&lt;/body&gt;&lt;/html&gt;");
/******* END: Browser Version 4.0 or greater *******
}
*/End of checkAnswer()*/
CHAPTER 8

HTML source code

The JavaScript source code list:

index.html
intro.html
intro_module1.html
mainmenu_top.html
pretest.html (in Module 1)
sitemap.html (in Module 1)
topics1.html (in Module 1)
index.html

<html>
<head>
<title>Computer Application for Thesis Preparation</title>
<meta NAME="Author" CONTENT="tailongk@u.arizona.edu">

<!----------Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk) ---------->
<!----------Free to use, include this header! email to tailongk@u.arizona.edu---------->

<script language="JavaScript">
function lastModifiedDate(a) {
    document.write("Last modified on: ")
    document.write(document.lastModified)
}
</script>
</head>
</head>

<body bgcolor="black" text="white" link="#bbbbff" vlink="#bbbbff">

<OOPS! Where am I?

Dear user, your browser does not currently support JavaScript.

If your are using Netscape 3.0 (Internet Explorer 3.0) or later then you can enable JavaScript. In Preferences, check Enable Javascript and then click OK.

This on-line computer application require a JavaScript enabled browser. Please come back after you enable the JavaScript.

Welcome to
For the best performance of this on-line tutorial and a good learning experience, I am assuming that:

- the computer you are using has a resolution 640 x 480 or better
- you know the basic functions of a Web browser

If yes, click

<a href="mainmenu.html">here</a> to enter.

If no, please get some basic background of these issues and then come back. This Web site is best viewed on a computer with a Pentium 133 (or similar) Processor and a 33.6K modem (or faster) by using a frame-supported and Javascript enabled browser, such as:

- Netscape Navigator 4.0 (or later)
- Microsoft Internet Explorer 4.0 (or later)

Netscape Navigator 4.0 (or later)
Microsoft Internet Explorer 4.0 (or later)
There are four areas, which will be covered in this tutorial. They are organized into four modules.
1. Module 1
Learn to research and collect information. This module will teach students how to do research and collect information through the Internet. Students will learn the strategies of information collecting, and learn about the Internet search engines.

2. Module 2
Learn to use Microsoft Word. After studying this module, students will know how to use Microsoft Word to create useful documents. Students will find out how to use tables, bullets, bolding, Italics, and shading.

3. Module 3
Learn to use PageMaker. The basic desktop publishing concepts will be taught in this module. Students will examine the most effective ways to incorporate colors, fonts, and graphical elements.

4. Module 4
Learn to make Web pages. This module features the latest development tools and technologies for building Web pages. It covers topics like how to create Web-appropriate images and also addresses design issues such as type, layout, color, and navigation.
intro_module1.html

<html>
<head>
<title></title>
<meta NAME="Author" CONTENT="tailong@u.arizona.edu">
<!-- Script Author: Tailong Ke ( http://www.u.arizona.edu/~tailongk )-->
<script language="JavaScript">
function lastModifiedDate(a) {
    document.write("Last modified on: ")
    document.write(document.lastModified)
}
</script>
</head>
<body bgcolor="black" text="white" link="#bbbbff" vlink="#bbbbff">
<center>
<table border="0" width="600" height="30">
<tr>
<td width="600" height="35">
<b>Module 1 - Learn to research and collect information</b>
</td>
</tr>
<tr>
<td width="600" height="25">
Why do I need to study..."}</td>
</tr>
</table>
</center>
</body>
</html>
<table>
<thead>
<tr>
<th>This area?</th>
<th>You will find that the Web is a good research tool when you are looking for sources for your research projects, when you want to learn more about research strategies, or when you want to explore ideas with other students.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Who should explore this module?</strong></td>
<td>Anyone interested in finding out what the Internet is, how it works and how to use it.</td>
</tr>
<tr>
<td><strong>What will you learn from this module?</strong></td>
<td>This course will teach anyone with little or no Internet experience the basics of the Internet, how to use the tools and get the most out of the Internet.</td>
</tr>
<tr>
<td><strong>How long will it take for you to finish it?</strong></td>
<td>This module, which contains 42 topics, will take average students 2 hours to finish. This time does not include the download time of Web sites.</td>
</tr>
<tr>
<td><strong>Are there any prerequisites?</strong></td>
<td>You are assumed to have a basic understanding of computers.</td>
</tr>
</tbody>
</table>
pretest.html (in Module1)

<html>
<head>
<title></title>
<meta NAME="Author" CONTENT="tailongk@u.arizona.edu">
<!-- Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk)-->
<script language="JavaScript" src="../Library/check1.js"></script>
<script language="JavaScript" src="../Library/check1a.js"></script>
<script language="JavaScript">function lastModifiedDate(a) {
    document.write("Last modified on: ")
    document.write(document.lastModified)
}
</script>
</head>
<body bgcolor="black" text="white" link="#bbbbff" vlink="#bbbbff">

</body>
</html>
Please complete these 10 questions. After you finish, the computer will grade your answers and give you a score. Then you will be redirected to a learning area.

1. When speaking of the Internet, "Yahoo" refers to?
   - a series of networked computers
   - an Internet search tool
   - a successful search on the Internet
   - a list of cowboy related sites on the Web

2. An Internet address with a .com at the end of the address would indicate which kind of Web site?
   - a military site
   - a University site
   - a list of cowboy related sites on the Web
3. Which of the following allows you to re-visit your favorite sites without entering an address or using a search tool?<br>
<br>4. Which one is a name for a Web browser?
5. The term "search syntax" refers to:

- Alta Vista
- the proper etiquette for using search tools
- searching for a Web browser
- the way that search words are entered

6. To which menu would you go to set up Netscape 4.0?

- use Preferences through Edit menu
- use Page source through View menu
- use Page setup... through File menu
- don't know

7. Which of the following are names for Web search engines?

- Yahoo, Netscape, Alta Vista
- don't know
8. Placing quotation marks (""") around a two word phrase in the Alta Vista search engine will cause the search tool to:

- find nothing
- search for Web sites that have either of the words on the page
- find pages with the first word only
- search for Web sites that have both of the words together on the page

9. To save a text document from the Internet through a Web browser, use:

- Print button
- Save as through File menu
- Save through View menu, bring out Page Source menu
as **through** File **menu, change** Save as type **to** .txt **through** File menu, change **Save as type** to .txt

<table>
<thead>
<tr>
<th>10. To transfer an image on the Internet, which transfer mode do you need to use?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASCII</strong></td>
</tr>
<tr>
<td><strong>Binary</strong></td>
</tr>
<tr>
<td><strong>Together</strong></td>
</tr>
<tr>
<td><strong>Don't know</strong></td>
</tr>
</tbody>
</table>

Several questions here originated in Research Instruction Online, the University of Arizona Library.
### sitemap.html (in Module 1)

```html
<html>
<head>
<title></title>
<meta NAME="Author" CONTENT="tailongk@u.arizona.edu">
<!--[-- Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk)-->]
<script language="JavaScript">
  function lastModifiedDate(a) {
    document.write("Last modified on: ")
    document.write(document.lastModified)
  }

  function checkAnswer() {
    correctNum=0;
    if (document.forms[0].Q1[1].checked)
      correctNum = correctNum+1;
    else ;

    if (correctNum > 0)
      window.open(score.html, ", ");
  }
</script>
</head>

<body bgcolor="black" text="white" link="#bbbbff" vlink="#bbbbff">
<div align="center"><center>
```
Please choose one of the sections to continue your study.

- **Basic Concepts**
  - **The Internet**
    - What is the Internet and what is a network?
    - Internet address
    - What is a URL?
  - **Web Browsers**
    - What's in a Web browser?
  - **Web Search Engines**
    - Search engines
    - Web search
  - **Email**
    - Basics of sending and receiving
    - How do I address mail?

- **General Topics**
  - **The Internet**
    - Evaluating Information Found on the Web
    - What is SABIO?
    - How does the internet function?
    - Jargon and Background of the Internet
<li><b>Web Browsers</b>
  <ol>
    <li>Navigating With the Netscape Browser</li>
    <li>Bookmarking and Organizing for Efficiency</li>
  </ol>
</li>

<li><b>Web Search Engines</b>
  <ol>
    <li>Search Tools and Strategies</li>
    <li>Search Engines, Indexes, Directories and Libraries</li>
    <li>Tips for Searching the WEB</li>
  </ol>
</li>

<li><b>Transferring Files Through The Internet</b>
  <ol>
    <li>What about attachments?</li>
  </ol>
</li>

<!-- Advanced Topics -->

<ul>
  <li><b>The Internet</b></li>
  <ol>
    <li>FNC Resolution: Definition of "Internet"</li>
    <li>What is Hypertext?</li>
    <li>RIO Glossary</li>
    <li>Glossary of Internet Terms</li>
  </ol>
</ul>

<ul>
  <li><b>Web Browsers</b></li>
  <ol>
    <li>Microsoft IE</li>
    <li>Netscape Navigator</li>
  </ol>
</ul>

<ul>
  <li><b>Web Search Engines</b></li>
  <ol>
    <li>Printing, Downloading and Saving Web Information</li>
    <li>Ten Friendly Tips for Internet Research</li>
    <li>Tips for searching from Microsoft</li>
    <li>Search Helper - Windweaver's Easy Search</li>
  </ol>
</ul>

<ul>
  <li><b>Transferring File Through Internet</b></li>
  <ol>
    <li>What are Usenet, FTP, and gopher?</li>
    <li>Wait a minute, what is FTP, anyway?</li>
    <li>Tutorials for WS FTP</li>
  </ol>
</ul>
topics1.html (in Module 1)

<html>
<head>
<title></title>
<meta NAME="Author" CONTENT="tailongk@u.arizona.edu">
<!-- Script Author: Tailong Ke (http://www.u.arizona.edu/~tailongk )-->
<script language="JavaScript">
function rollsu1(imageName) {
    document.images[imageName].src = "./images/blueballon.gif";
    return true;
}

function turnoffsub1(imageName) {
    document.images[imageName].src = "./images/blueball.gif";
    return true;
}
</script>
</head>
<body>
</html>
function lastModifiedDate(a) {
    document.write("Last modified on: ")
    document.write(document.lastModified)
} </script>
</head>

<body bgcolor="black" text="white" link="#bbbbff" vlink="#bbbbbaa">
<center>
<table border="0" width="600" cellspacing="5" cellpadding="3">
<tr><td xfont color="#cccccc" FACE="Arial, Helvetica, sans-serif size="2"><blockquote>It may take about half an hour for you to finish this section.</font></td>
</tr>
<tr><td xfont size=4 color="#cccccc" FACE="Arial, Helvetica, sans-serif">
The Intemet:<font size=2>/td></tr>
<tr>
<td width="600" height="25 "xfont FACE-Arial, Helvetica, sans-serif size=2><img src="../images/blueball.gif" name="al" width="15" height='15"> <a onMouseOver="rollsub1('a1')" onMouseOut="turnoffsub1('a1')" target="content" href="http://dizzy.library.arizona.edu/infolit/rio/web2.html">What is the Internet and what is a network?</a><br>
</td>
</tr>
<tr>
<td><font FACE="Arial, Helvetica, sans-serif size=2><img src="../images/blueball.gif" name="a2" width="15" height='15"> <a onMouseOver="rollsub1('a2')" onMouseOut="turnoffsub1('a2')" target="content" href="http://www.library.arizona.edu/rio/web3.html">What is a Internet address?</a><br>
</td>
</tr>
<tr>
<td><font FACE="Arial, Helvetica, sans-serif size=2><img src="../images/blueball.gif" name="a3" width="15" height='15"> <a onMouseOver="rollsub1('a3')" onMouseOut="turnoffsub1('a3')" target="content" href="http://www.microsoft.com/insider/intemet/articles/browse.htm#url">What is a URL?</a><br>
</td>
</tr>
<tr><td colspan="2"><font size=4 color="#cccccc" FACE="Arial, Helvetica, sans-serif">
Web Browsers:</font></td></tr>
<tr>
<td><font FACE="Arial, Helvetica, sans-serif size=2><img src="../images/blueball.gif" name="a4" width="15" height='15"> <a onMouseOver="rollsub1('a4')" onMouseOut="turnoffsub1('a4')" target="content" href="http://www.library.arizona.edu/rio/web4.html">What is a Web browser and what is an internet connection?</a><br>
</td>
</tr>
<tr>
<td><font FACE="Arial, Helvetica, sans-serif size=2><img src="../images/blueball.gif" name="a5" width="15" height='15"> <a onMouseOver="rollsub1('a5')" onMouseOut="turnoffsub1('a5')" target="content" href="http://www.library.arizona.edu/rio/web5.html">What is a Web browser and what is an internet connection?</a><br>
</td>
</tr>
<tr>
<td><font FACE="Arial, Helvetica, sans-serif size=2><img src="../images/blueball.gif" name="a6" width="15" height='15"> <a onMouseOver="rollsub1('a6')" onMouseOut="turnoffsub1('a6')" target="content" href="http://www.library.arizona.edu/rio/web6.html">What is a Web browser and what is an internet connection?</a><br>
</td>
</tr>
<tr>
<td><font FACE="Arial, Helvetica, sans-serif size=2><img src="../images/blueball.gif" name="a7" width="15" height='15"> <a onMouseOver="rollsub1('a7')" onMouseOut="turnoffsub1('a7')" target="content" href="http://www.library.arizona.edu/rio/web7.html">What is a Web browser and what is an internet connection?</a><br>
</td>
</tr>
<tr>
<td><font FACE="Arial, Helvetica, sans-serif size=2><img src="../images/blueball.gif" name="a8" width="15" height='15"> <a onMouseOver="rollsub1('a8')" onMouseOut="turnoffsub1('a8')" target="content" href="http://www.library.arizona.edu/rio/web8.html">What is a Web browser and what is an internet connection?</a><br>
</td>
</tr>
<tr>
<td><font FACE="Arial, Helvetica, sans-serif size=2><img src="../images/blueball.gif" name="a9" width="15" height='15"> <a onMouseOver="rollsub1('a9')" onMouseOut="turnoffsub1('a9')" target="content" href="http://www.library.arizona.edu/rio/web9.html">What is a Web browser and what is an internet connection?</a><br>
</td>
</tr>
<tr>
<td><font FACE="Arial, Helvetica, sans-serif size=2><img src="../images/blueball.gif" name="a10" width="15" height='15"> <a onMouseOver="rollsub1('a10')" onMouseOut="turnoffsub1('a10')" target="content" href="http://www.library.arizona.edu/rio/web10.html">What is a Web browser and what is an internet connection?</a><br>
</td>
</tr>
</table>
</center>

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Web Search Engines:

What's in a Web browser?

What a Search Engine Is?

What are the differences between search engines?

Web search

Email:
<table>
<thead>
<tr>
<th>#</th>
<th>URL, EMAIL AND COPYRIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;a href=&quot;http://www.whatis.com/email.htm&quot;&gt;What is e-mail?&lt;/a&gt;</td>
<td>Basics of sending and receiving</td>
</tr>
<tr>
<td>&lt;a href=&quot;http://www.microsoft.com/insider/internet/articles/email.htm&quot;&gt;Basics of sending and receiving&lt;/a&gt;</td>
<td>How do I address mail?</td>
</tr>
<tr>
<td>&lt;a href=&quot;http://www0.delphi.com/navnet/faq/mailq.html#address mail&quot;&gt;How do I address mail?&lt;/a&gt;</td>
<td>What is a domain name?</td>
</tr>
<tr>
<td></td>
<td>Created by: Tailong Virtual Studio, © 1999 Tailong Ke</td>
</tr>
</tbody>
</table>
</td>
<!-- ------------------------------------------------> -->
</tr>
</table>
</center>
</body>
</html>
CHAPTER 9

Comments

Major points and changes

Here is the email I sent to faculty in the College of Fine Arts and some students at The University of Arizona for comments about the on-line computer application:

This is Tailong Ke, a graduate student in College of Architecture at U of A. For my graduate research project, I developed a Web-based application called 'Computer Application for Thesis Preparation' and published it on-line. This is a on-line tutorials that will help users to learn how to use Internet, Microsoft Word, Adobe PageMaker to prepare their Thesis and Graduate reports. And also help users to learn how to create Web pages to present their research. There are 3 steps for each module. First, you will finish a pretest and get a score. Second, according to your score, you will be automatically directed to one of three levels of learning. Third, after finishing one level, you will be asked to take a post-test.

I would like to invite you to evaluate it - just play with it and give me some feedback. You can
EITHER,
send your comment by reply this email later
OR MORE EASIER,
click the 'Comment' link at top of every page, then type in comment online and click submit.
Please tell me your computer or Internet background in your comment.

I want to thank you first because your suggestions will be very important for me to
improve this application.

Finally, here is the URL (address) for the Web site:

http://architecture.arizona.edu/courses/arch560/Research

Some comments, like "...... the black background makes eyes sleepy......", are not common issue and I did not make a modification about them. Here are the major points from the Comments and the modification that I made:

1. Comment: "...... I had to start all over again with the pretest instead of going back to where I was before I decided to comment. It's kind of inconvenient to have to start over. ....."
   Modification: The CGI computer program is changed to fix this problem. Now after submitting the comment, users can go back to where they were before they decided to comment.

2. Comment: "...... when I finally finish the 10 questions quiz, I want to know how much score I got and what is correct answer of those questions I can't figure out. ....."
   Modification: Add another button to pretest, call 'score' and write another JavaScript computer program to print out those questions for which the user chose the wrong answer or did not choose a answer.

3. Comment: "...... I looked over your web site again and I see the option to check my score on the pretest. Yesterday I believe I suggested you add this to your web site, but I see you have already done this - I must have missed it. Also I see that one can choose "beginning" or "continuing" which is exactly what I wanted. Very good navigational control for me. ....."
   Modification: Since 'Beginning' and 'Continuing' are not very clear. Change to ‘Begin’ and ‘Resume’. Also made different icons to present ‘Begin’ (Triangle) and ‘Resume’ (Circle). Program the two hyperlinked icons to have mouseOver function. When users move mouse over the icon, there will be a text box show what it is.

Comments

From: Steven K Hedden <hedden@U.Arizona.EDU>
What a great idea!
Several of my faculty/staff in the College of Fine Arts would find your tutorials to be quite valuable. Would you want to have feedback from such a group? If so, I'll forward the email to the CFA listserv.
Thanks

Steven K. Hedden
Senior Associate Dean
College of Fine Arts
University of Arizona
520/621-1302

From: Steven K Hedden <hedden@U.Arizona.EDU>
To: cfa@listserv.arizona.edu
Subject: WWW: How to search

Below is information about a recently created tutorial on "How to search the WWW." The tutorial is self-leveling; that is, it presents diagnostic questions, then guides you to the level that matches, as closely as possible, your current knowledge. And, there are other tutorials you'll find at the site.

If you choose to sample the WWW tutorial, you'll see that it's intended as a resource for graduate students. When I tried it, I felt that it might be a valuable material for several people in the CFA—both faculty and staff. The author of the tutorial, as shown below, is a grad student in Architecture—Tailong Ke, who is very eager for feedback about how to continue to refine the presentation. If you use the material in the tutorial, please provide your constructive comments.

Steven K. Hedden
Senior Associate Dean
College of Fine Arts
University of Arizona
520/621-1302
From: Mark <mcarv63@ai.bpa.arizona.edu>

Basic Concepts is a very nice page and overall the links were very educational at all levels. Good info.
One thing I noticed -- I had to start all over again with the pretest instead of going back to where I was before I decided to comment. It's kind of inconvenient to have to start over.

Mark Carvalho
Marketing Director
Knowledge Computing Corporation
* A modification(#1) was made after this comment.

From: Larry Lepley <llepley@theriver.com>

Hi Tailong: I'm a novice when it comes to the internet, computer, etc. I got your site through Rob Dvorak. Well, it looks good and seems to be clear. But for me to go through it all, will take a long long time, because I end up on other links reading and reading. I'm interested in seeing what I can learn from it. Probably everything I would want to know is there. So thank you. I think this is an excellent project, and one that someone like me can use. I'll try to do a little whenever I sit down at the computer and will let you know how I'm doing. I barely passed the beginning test, so it can only be straight up for me. Thanks again.
- Sheila Lepley

From: Lucy Petrovich <lucy@U.Arizona.EDU>

I am reviewing your Computer Application for Thesis Application web site. It looks like a very good tutorial for web instruction. Following are some comments:
Some very good ideas that you have:
1. easy to read, well designed.
2. your quiz is an added interactive treat.
3 Having previous and next page at the end of each page.

 Might need improvement:
1. It would be helpful if the title of each page would be different in some way. When I went to the "Go" menu all of the titles were the same and I could not go back to the exact page that I wanted.

2. Getting the test results. With your initial quiz I would like to know how many correct answers I had.

3. Let me go on to advance topic section without having to take the quiz each time. What if I come back tomorrow to finish, I have to retake the quiz?

4. Some "next page" do not work. (shows a page that says "This form has expired").

All in all I thought these were valuable pages to show my students in my Multimedia class. Will your pages be available for my students to use?

Personal Info:
I work in the College of Fine Arts Peter Treistman Center for New Media as the Multimedia Specialist, helping faculty learn to create web pages. I also teach the MAR 406 Multimedia class for the Media Arts Dept.

Lucy Petrovich
Peter Treistman Fine Arts Center for New Media
http://www.arts.arizona.edu/treistman/lucy/bio.html

* A modification(#2) was made after this comment.

From: Lucy Petrovich <lucy@U.Arizona.EDU>

I looked over your web site again and I see the option to check my score on the pretest. Yesterday I believe I suggested you add this to your web site, but I see you have already done this - I must have missed it. Also I see that one can choose "beginning" or "continuing" which is exactly what I wanted. Very good navigational control for me.

Lucy Petrovich
Peter Treistman Fine Arts Center for New Media
http://www.arts.arizona.edu/treistman/lucy/bio.html

* A modification(#3) was made after this comment.
From: Nancy Cheng <nywc@darkwing.uoregon.edu>

Good effort on creating this resource.

Two thoughts:
First, I got stuck in after taking the pretest for the Web part and couldn't find my way into the course content.
The second, while I enjoy the interface and the resources, I'd warn you to be careful of scooping up other people's Web pages and putting them onto your own site due to copyright problems. Safer to summarize your main insights from the page and then link to it.

Good luck with your work.
Nancy Cheng

From: janine king <jking@ufl.edu>

Hi,
I teach computer apps for 3d design. I think your web course is interesting. Couple comments. in module one you keep referring to research and I keep thinking you really mean information gathering. Conducting research is a process of hypothesis testing. Also modules 3 and 4.

From: "John P. Burke" <jburke@awod.com>

I have absolutely no experience as, or knowledge of how to be, an architect. Having said that, I thought your web page was easy to read, very informative, and would be useful to me as a prospective undergraduate or graduate student of Professor Dvorak's.

J.P. Burke

From: kosasih@U.Arizona.EDU
Good design and great points to teach. It help a lot for self improvement. I tried out different topic today, and it was direct to the point and good well defined links that is direct.

The background color suited to attract attention. However, for the information background, lighter background like "white" might be better. I realize when its in menu form the black is cool but when i pay more attention to learn the black background makes eyes sleepy.

Overall, well planned and great logic flow.
Good job! Thank you!

From: "Chen, G-Michael" <G-Michael.Chen@Corp.Honeywell.com>

Hi tailong,
It is a great idea to design that kind of tool. This is a good self learning tutorial. I need a training course.

Michael Chen
Corporate Financial Planning & Business Analysis

From: Fangyun Lu <fylu@U.Arizona.EDU>

Tailong,
I took a look at your on-line tutorial. The design is very good. But, I am not sure that I could give you useful comments, because I am not familiar with many computer applications. Actually, I never paid attention to the design of a website. However, I will do my best to give you some comments.

Let me tell you about my computer background first. As to the four topics you presented in your URL, I am familiar the best with Microsoft word. I have learn some internet knowledge from book but did not practice more (just the basic application). When I follow these two topic pretest, I was classified to advance level. I have no idea of Adobe PageMaker, which takes time for me to learn next. I also learn a little about Website setup from a Workshop in Main Library but lack of practice. So,
I don’t have much more comments about the latter two topics.

In one word, the layout of all contents are clear, reasonable and compact. In my opinion, I hope the color of background of the pages be a little bit brighter, such as a little decoration on the pages. Second, be sure the pretests are just. In Word training, I know how to use many functions of it by following the menu, but I can not remember many shortcut keys. I think it is enough to teach people where to find the function they want to know. On the other hand, the function of table and formulation in the Word are important for the student in scientific field. As to internet, I think it has covered the necessary aspects in that field. I guess the courses you presented here are mainly for beginner not for professional. That’s good.

Best

Fangyun Lu
Associate Researcher
Department of Chemistry, University of Arizona

From: Hadi Y Bunnalim <hadib@cs.arizona.edu>

Here is my comments:

module 1:
* it is better to have next button at the end of the beginning of module 1. Also button of next topic at the end of each topic instead going to sitemap
* Some of the links to microsoft.com are broken on basic topic
* after finish the pretest, how to know my score or missing questions

overall:
* Overall is good, for the color and art stuff I’m pretty much don’t have any experience on that so I don’t comment on that
* Maybe that The upper frame can have bigger font ?
* In term of understanding the content, for me I don’t have any problem.
* Good job ! I could not create this kind of webpage by myself.
From: jhu@U.Arizona.EDU

Hi, Tailong:
I think your website learning program is wonderful. I went to all your sites and it will be very helpful for the learners. Just one suggestion that for your thesis formatting part, you gave the examples of how to cite the articles and books and I think it is a different format. In social science, psychology, nursing we use APA format which is different from your example. I will suggest students in our college who are not familiar with the program to go to your website. I like how to create your website one.

Thanks for letting me know that you have this webpage.
Hu Jie, Ph.D
University of Arizona

From: "(Frank) Yingfei Ke" <yingfeik@U.Arizona.EDU>

Hi, tailong
I went to the online tutorials of your research project. Generally, I can say it’s great. I like the contents, the color... I don't know how many topics will this project cover? Do you put all the contents on Web now? Do you want to add more? I think most topics in this web site are basic to me. Of course I can learn something new from this tutorial, but I think you could add more advanced skills related with these software. I think my computer and Internet background is pretty good.

Frank
Teaching/Research Assistant
Aerospace & Mechanical Engineering
University of Arizona

From: Xiaoyun Sun <xiaoyun@U.Arizona.EDU>

Hi, Tailong,
I like the web site you created. Also I have some question that I would like to talk to you. Is that possible to let JavaScript program to tell people which question they made a mistake.
Xiaoyun
* A modification(#3) was made after this comment.

From: Xiaofeng Cheng <xcheng@U.Arizona.EDU>

Hi, I just scanned your site. I am very impressed by your creativity. I am planning to go through your sites later and learn something myself so, please wait for a week and I will give you the comments. I just enjoy checking the first model of your site. You are so humorous, a '.com' means a site in a communist country, Ha! Ha! Ha!

Just one advice, when I finally finish the 10 questions quiz, I want to know how much score I got and what is correct answer of those questions I can't figure out.

Yours truly
Calvin X.F. Cheng
MBA, UA
* A modification(#2) was made after this comment.

From: davids@U.Arizona.EDU

I know how to use Microsoft Word, but not too many. Your web site is a great help to write my paper. The layout is good. It's easy to navigate through the site. I think I will use your web site later. See you!
David
Freshman, U of A