Assignment

JavaScript Core Skills

This assignment draws on JavaScript materials from the Web Standards Curriculum. This curriculum is designed to provide an essential grounding in Internet Technologies including Hypertext Markup Language (HTML), Cascading Stylesheets (CSS) and JavaScript. Specifically, you will read through the first three JavaScript Core Skills sections.

JavaScript core skills

1. A_Short_History_of_JavaScript
2. Programming - the real basics!
3. What can you do with JavaScript

http://www.w3.org/community/webed/wiki/Main_Page#JavaScript_core_skills

Deliverables
Answer the following questions briefly but completely. Upload your answers to your online portfolio. Better students will include a link to the Web Standards Curriculum.

Questions
1. Briefly describe the origin of JavaScript.
2. What is the European Computer Manufacturers Association (ECMA)?
3. How does the ECMA relate to JavaScript?
4. What is JavaScript?
5. Discuss the JavaScript security model.
6. What is Hungarian notation?
7. What is Nodejs?
8. In its most basic form, what is programming?
9. What is the difference between a compiled and an interpreted language?
10. Where does JavaScript execute (client or server)? Discuss pros and cons.
11. What is the Document Object Model (DOM)?

Assignment
Document Object Model (DOM)

The Document Object Model (DOM) defines a standard way for accessing and manipulating HTML documents. It is a model of the HTML document which is created by the browser when it loads your web page.

To be successful with HTML and JavaScript, DOM knowledge is critical. For this assignment, you will work through the DOM Tutorial at W3 Schools. You can find this tutorial at:

http://www.w3schools.com/js/js_htmldom.asp

For your online portfolio, you should create a DOM Assignment Page that displays and explains the document object model and its major components including: Nodes, Methods, and Events.

Hint: An image of a Node Tree would likely be very helpful. Likely, you will also benefit from reading the relevant sections of Chapter 6 in your text.

Assignment
JavaScript Tutorial for Beginners, One

For this Assignment, complete Section One of the Javascript Tutorials for Beginner's at:

http://homepage.ntlworld.com/kayseycarvey/index.html

Section One is a group of eight related javascript tutorials:

Tutorial	Topic
Introduction and a first script	Creating the "Hello World" Script.
The SCRIPT tag and HTML	Learning about the Script Tag and Alert Boxes.
The Document Object	Introduction to the Document Object Model (DOM).
The Document Title Property	Dynamically manipulate a Document's Title property.
A Javascript Rollover	Work with JavaScript Events to create a graphic that changes as you move the mouse over it.
Javascript Methods and Events	Introduction to the "onload" and the "onUnload" events.
Testing your visitor's browser	Gather some information from site visitors.
The Window Object	Gather more information from site visitors.

Table One *JavaScript for Beginners Tutorials*

Deliverables
Post a page to your online portfolio that links to your JavaScript Rollover exercise, a test of your visitor's browser, and the Window Object scripts.

For troubleshooting, you may:
- Consult the W3Schools Tutorials

- Google
- Reference your text

Assignment

JavaScript Tutorials New Boston, One

For this Assignment, complete several Javascript Tutorials. First from the New Boston at:

http://thenewboston.org/list.php?cat=10

This assignment consists of several brief tutorials.

Tutorial	Description
Introduction to JavaScript	Introduction to scripting with JavaScript. (1/40)
Comments and Statements	Making comments and statements in JavaScript. (2/40)
Variables	Using variables in JavaScript. (3/40)
Different Types of Variables	Different types of JavaScript variables. (4/40)
Using Variables with Strings	(5/40)
Functions	Introduction to JavaScript Functions. (6/40)
Using Parameters with Functions	Using functions with parameters (arguments).(7/40)
Functions with Multiple Parameters	Passing multiple arguments to a function. (8/40)
The Return Statement	Returning a value from a function. (9/40)
Calling a Function From Another Function	Troubleshooting by calling functions from within other functions. (10/40)

Table Two *New Boston Tutorials*

Deliverables
Post a page to your onine portfolio that calls a function from another function (tutorial 10). In addition to the functions, explain what a JavaScript Function is and why functions are useful. Note: Don't create an infinite loop.

Assignment

Textbook Reading

Read Chapter 5, XHTML Forms for Data Collection and Submission from your textbook. In this unit, you will learn about forms for user inupt as well as about the input and label elements.

Note also that W3Schools has an excellent forms section in their HTML tutorial.