CSCI 215: Website Programming

Lab 5

In this lab we'll perform simple exercises to get you familiar with the DOM, and using JavaScript to access DOM nodes.

Task 1: Converting HTML to a DOM Tree

For the given html document (see SimpleHTML.pdf), draw the DOM tree. You're DOM tree shall include all Element, Attribute, and Text nodes defined in the html document.

Task 2: Using JavaScript to Access Element Nodes

Copy and paste the contents of the structure.txt into jsFiddle.

In jsFiddle write a JavaScript program that uses the *getElementsByTagName* method to loop through all the ordered list **<ol>** element nodes defined in the structure file. In each iteration display the element node in the console (i.e. use console.log to print the element node). For this program you choose the looping structure (e.g. for, while, do-while) to accomplish this task.

Task 3: Using JavaScript to Access Child Nodes

In jsFiddle modify the JavaScript program in Task 2 to loop through all the **<ol>** child nodes using the *childNodes* method. To accomplish this task a two-nested looping structure is required, i.e. the outer-loop iterates through all the **<ol>** element nodes, and the inner-loop iterates through all the child nodes of a **<ol>** element node. For each inner-loop iteration, additionally display the child node in the console. Likewise, you choose the looping structures (e.g. for, while, do-while) to accomplish this task.

Submission of Assignment

For task 1: This is a paper and pencil exercise, so please submit solution to instructor when complete.

For task 2 and 3: Copy and paste your jsFiddle JavaScript solution into a file named **behavior.txt** and submit to Dropbox.