Tutorial 3

Strings and Arrays

1. Create a new folder on your W drive, e.g. w:\ci135\sem2\session03, and in it create a HTML page called index.html and a JavaScript file script.js. Link the JavaScript file to the HTML using a <script> element.  
     
   **HINT**: Check the files are linked correctly by adding the statement alert("Works!"); to the JS file
2. Count the number of times the letter "e" appears in the following text:  
   I'm learning JavaScript in my web development module.  
     
   **HINT**: Try using a for loop and the String.charAt() method, and remember to escape any special characters.
3. Add the following line of code to the script file and then complete each of the following tasks, logging the friends array to the console after each  
   var friends = ["Tom", "Tim", "Lyn", "Bob"];
   1. Change the last element in the array to "Alex"
   2. Using the splice() method remove the second and third items in the array
   3. Push on the names Dave and Kelly
   4. Pop off the last element of the array and splice it into index 0

**HINT**: The contents of the array should be:  
["Kelly", "Tom", "Alex", "Dave"]

1. Add the following line of code to the script file and then complete each of the following tasks, logging the ages array to the console after each  
   var ages = [56, 23, 45, 21, 2, 67, 34];
   1. Sort the array in ascending alphabetical order
   2. Sort the array in ascending numerical order
   3. Sort the array in descending numerical order