Tutorial 2

Getting started with JavaScript

You are welcome to use any appropriate code editing software you wish for this tutorial, such as Dreamweaver, Brackets or Notepad++. However, you should edit the code yourself and not use any code generation features of such tools.

1. Describe what is meant by weakly and strongly typed languages, which is JavaScript?
2. In JavaScript a semi-colon is optional, but why should we always use it anyway?
3. Create a new folder on your W drive, e.g. w:\ci135\sem2\session02, 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  
     
   **NOTE**: Beware Microsoft smart quotes when copying code from slides and documents. Many tools automatically change ASCII quotes (such as "…" and '…') to smart quotes (such as “…” and ‘…’). Smart quotes will not be understood by the JavaScript interpreter and will cause problems.
4. Create two variables named a and b initialized as 2 and 5 respectively, then write statements for each of the following, printing the result to the console:
   1. 100 divided by 23  
      HINT: use console.log(statement); to log the result of a statement.
   2. a multiplied by b
   3. a added to b, then modulus 3
   4. a less than or equal to b
   5. 1 equals true (note the difference between == and ===)
   6. b divided by a only when a is less than b
   7. Log the word "Hello" to the console b times (HINT: use a for loop)
   8. Add a to b until b is less than 100, log the value of b after this loop (HINT: use a while loop)
5. Add the JSLint configuration comment to the top of your JavaScript file and try running your code against JSLint ([www.jslint.com](http://www.jslint.com)) – What errors, warnings, or comments did JSLint give you? Investigate these by looking at their description on <https://jslinterrors.com>   
     
   **NOTE**: Use of JSLint is recommended to help you identify issues in, and improve, your code.