

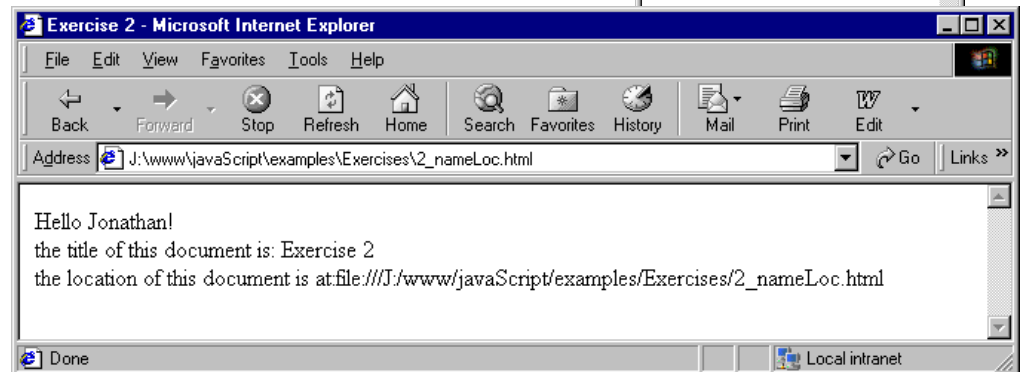
## Lab 6 - JavaScript

The aim of this exercise is to help you learn JavaScript.

1. Write a HTML document that includes a JavaScript SCRIPT node, where the SCRIPT writes a welcome string to the screen ... (for example) a line of text such as “hello Jonathan”. The output text should be contained within a string .. and you should use the document.write method.

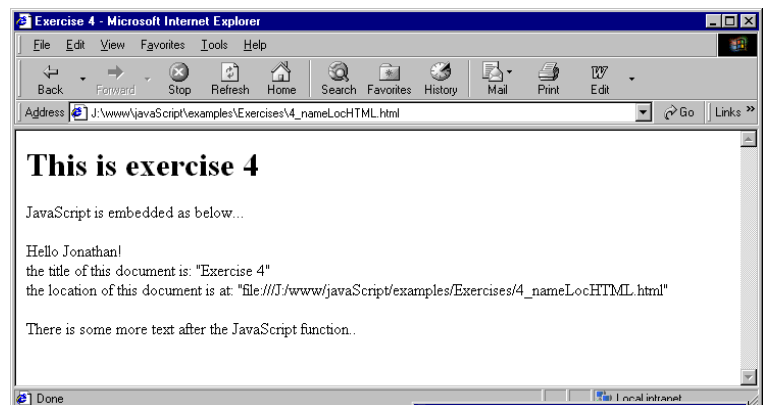


2. Extend this program so that it writes out your welcome-string as above, the title of the document (note you'll need a TITLE tag), and the location of the file.



3. Extend the previous exercise, to also include double quotes " to appear around both the title and the name of the file: e.g. the title of this document is: "Exercise 3"

4. Put all the above code within a function, and invoke the function from inside some HTML. So we have HTML code, JavaScript function, followed by the remainder of the HTML document.

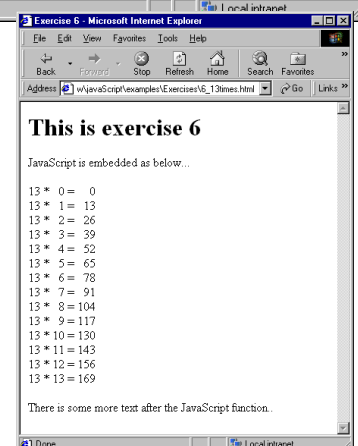


5. Write a function to output the 13 times table (up to 13x13).

6. Now make the 13 times table align appropriately. You should output the spaces to align the text as the non-breaking space entity (This entity tag forces a space character to appear in HTML). Note. Actually, to represent a character width you need to use two non-breaking space entities!

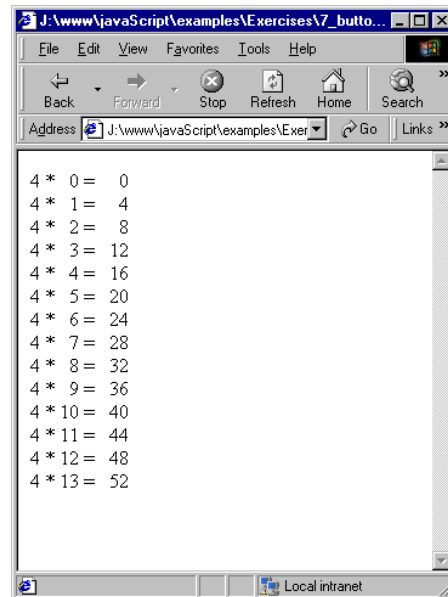
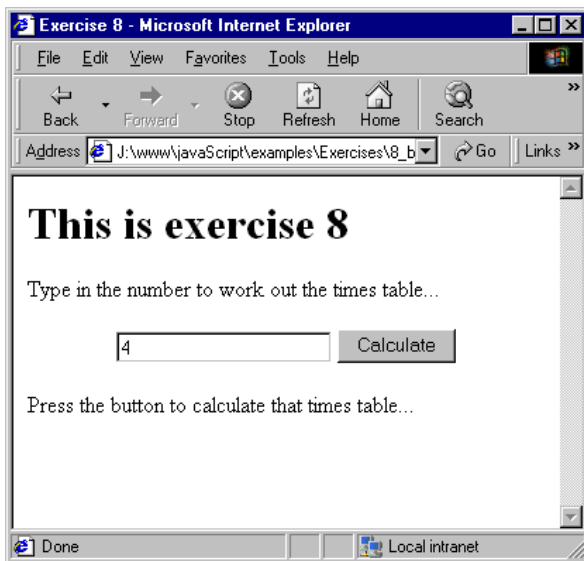
7. Develop a **function** that takes in a *number* and works out its time-table: call it `ttable`.

8. Now attach the `ttable` function (from task 7) to a FORM, so that it works out a user-requested times-table on a press of a button...



For this you'll need to have a FORM, with two fields, one “text” and the other a “button”. Put a default “value” in the Form Text field, so that the times table will work on a particular default.

Use a button field in the Form. And attach the `tttable` function so that it'll invoke it on an `onClick` event. This will need to also have a parameter (the value you need to times by). Note. Name the FORM fields appropriately, so you can do something like: `document.topForm.val1.value` .. to get the value of that field.



9. Now make the output appear below the FORM itself without loading into a new window; and allow the user to update the value of the times-table as they like.