Tutorial 4

functions and Events

1. Create a new folder on your W drive, e.g. w:\ci135\sem2\session04, 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. Write a function called multiply that takes two arguments (a and b) and returns the result of multiplying those arguments together  
     
   **HINT**: Refer to the lecture slides to see how to do this
3. Write a function called square that takes one argument (a) and returns the result of the square of its input (i.e. a2). E.g. square(2)===4 and square(10)===100
4. Write a function called countStr that takes two arguments (str and searchStr) and returns the number of times searchStr occurs in str. Check that it’s working, console.log(countStr("Hello", "l")); should log 2.
5. Write a function called rotate that takes two arguments (arr, an array, and num, a number), which will modify the arr array by *popping* an element off the last element and *splicing* it at the start of the array. This should be repeated num times, effectively rotating the array.  
     
   **HINT**: rotate(["Harry","Sarah","Oscar","Tina"],2)===["Oscar","Tina","Harry","Sarah"];
6. Add a <button> to your HTML with the id q6, and attach to it a click event listener that logs the text "Clicked" to the console  
     
   **HINT**: In the <button id="q6">Question 6</button>
7. When the user clicks on a button the browser fires a series of mouse events (mousedown, mouseup, mouseover and mouseout). Describe these events, what they mean and the order they occur in.

Mousedown is when the left mouse button is pressed down, mouseup is when the mouse button is released, mouseover is when the cursor goes over the button, and mouseout it when the cursor leaves the button.

1. Add an anchor <a> to your HTML with the id q8 and a href to "http://www.brighton.ac.uk", and attach to it a click event listener that logs the text "Clicked" to the console. The listener should prevent the default action of the anchor.