1. The goal of this exercise is to get an environment set up and working.
2. Create a folder in which to work.
3. Create a new HTML file in a text editor. Call it index.html.
4. Create a JavaScript file in a text editor. Call it main.js.
5. Put an alert in the script file, like this: alert('Hello world');`
6. Use a script tag to link the JavaScript file into the HTML file
7. Open the HTML file in a browser. See the alert?
8. Extend the code so it pops up two alerts.

2. Given three variables

const daysInYear = 365.25;

const daysInWeek = 7;

const yearsInLifetime = 80;

Calculate the average number of weeks in a human lifetime.

## 3. Exercise - String Concatenation

1. Create a variable called greeting. Store the value 'hello' in it.
2. Create a variable called name. Store the value 'world' in it.
3. Use your variables to alert "hello world".
4. Use a couple of regex to change the output to "he110 w0r1d"
5. Use a couple more functions to reverse the result. A coding device! Write the reverse decoder.

4. The following code uses the prompt() function to get two numbers from the user. It then adds those

two numbers together and writes the result to the page:

<!DOCTYPE html PUBLIC “-//W3C//DTD XHTML 1.0 Transitional//EN”

“http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd”>

<html xmlns=”http://www.w3.org/1999/xhtml”>

<script language=”JavaScript” type=”text/javascript”>

var firstNumber = prompt(“Enter the first number”,””);

var secondNumber = prompt(“Enter the second number”,””);

var theTotal = firstNumber + secondNumber;

document.write(firstNumber + “ added to “ + secondNumber + “ equals “ +

theTotal);

</script>

</body>

</html>

However, if you try the code out, you'll discover that it doesn't work. Why not? Change the code so that

it does work.

1. . Read in two numbers and display the larger.
2. Read in two numbers and display them in ascending order.
3. Use a loop to display the numbers in the range 0…20 that are multiples of 3.
4. 10 alerts with the values 0…9.
5. What does this code do?

var count=0; for (var half=0; half<=2; half++) { for (var qtr=0; qtr<=4; qtr++) { for (var dime=0; dime<=10; dime++) { for (var nick=0; nick<=20; nick++) { for (penny=0; penny<=100; penny++) { if (50\*half + 25\*qtr + 10\*dime + 5\*nick + penny == 100) { count++; } } } } } } alert(count);