Programming Concepts
Week 6 **Pass** Submission Tasks Template

Student ID: _____103055993_____

Student Name: _____Mario Stavreski_____

Pass Task 13 HTML code

Paste the HTML code of the web page here.

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <meta charset="utf-8" />
5     <meta name="description" content="for, while loops" />
6     <meta name="keywords"    content="javascript, for, while, loops, html" />
7     <meta name="author"      content="Mario Stavreski" />
8     <title>Loops</title>
9       <script src="w6P1.js"></script>
10  </head>
11  <body>
12  <header>
13    <h1> Pass Tasks Loops<h1>
14  </header>
15  <article>
16
17    <button type="button" id="forbutton"> List names using a for loop </button>
18    <button type="button" id="whilebutton"> List names using a while loop </button>
19    <button type="button" id="namelength"> Name length </button>
20
21    <p id="msg1"></p>
22    <p id="msg2"></p>
23    <p id="msg3"></p>
24
25  </article>
26  <footer><p>Produced by Mario Stavreski ID: 103055993</p></footer>
27  </body>
28  </html>
29
```

Pass Task 13 JavaScript code

Paste the JavaScript code of the same page here.

```javascript
/* Filename: w6P1.js
   Target html: w6P1.html
   Purpose : display names using for and while loops, count the number of letters in a name
   Author: Mario Stavreski
   Date written: 27/04/2020
   Revisions:  v1.0
*/

var arrNames = ["Mario", "Brian", "Dominic", "Mia", "Han", "Peter", "Paul", "Andreas"]; //array of names

function listValuesForLoop() {//lists the names using a for loop

  var vNames = "";
  vNames = "This is a list of names using a for loop: ";
  var vIndex = 0;

    for (vIndex = 0; vIndex < arrNames.length; vIndex++) {
    vNames = vNames + arrNames[vIndex] + "</br>";
  }

  document.getElementById('msg1').innerHTML = vNames;

}

function listValuesWhileLoop() { // lists the names using a while loop

  var vNames = "";
  vNames = "This is a list of names using a for loop: ";
  var vIndex = 0;

  while (vIndex <=7) {
    vNames = vNames + arrNames[vIndex]  + "</br>";
    vIndex ++
  }

  document.getElementById('msg2').innerHTML = vNames;

}

function determineNameLength() { // determines the number of characters in a name
  var vName = "";
  vName = "Number of characters in my name: ";
  document.getElementById('msg3').innerHTML = vName + arrNames[0].length;
}
```

```
40    function determineNameLength() { // determines the number of characters in a name
41      var vName = "";
42      vName = "Number of characters in my name: ";
43      document.getElementById('msg3').innerHTML = vName + arrNames[0].length;
44    }
45
46    function init() {
47
48      var btn = document.getElementById('forbutton');
49      btn.onclick = listValuesForLoop;
50
51      var btn = document.getElementById('whilebutton');
52      btn.onclick = listValuesWhileLoop;
53
54      var btn = document.getElementById('namelength');
55      btn.onclick = determineNameLength;
56    }
57
58    window.onload = init;
59
```

Pass Task 13 web page testing

Paste the screen captures of your testing web page here.

Pass Tasks Loops

List names using a for loop	List names using a while loop	Name length

This is a list of names using a for loop: Mario
Brian
Dominic
Mia
Han
Peter
Paul
Andreas

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Pass Tasks Loops

List names using a for loop List names using a while loop Name length

Number of characters in my name: 5

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Pass Task 14 HTML code

Paste the HTML code of the web page here.

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <meta charset="utf-8" />
5     <meta name="description" content="Statistics using loops and arrays" />
6     <meta name="keywords"    content="arrays, statistics, javacript, loops, html" />
7     <meta name="author"      content="Mario Stavreski" />
8     <title>Statistics</title>
9     <script src="w6P2.js"></script>
10  </head>
11  <body>
12  <header>
13    <h1> Pass Task: Statistics </h1>
14  </header>
15  <article>
16
17    <button type="button" id="stats"> Perform Stats </button>
18    <p id="msg"></p>
19
20  </article>
21  <footer><p>Produced by Mario Stavreski</p></footer>
22  </body>
23  </html>
24
```

Pass Task 14 JavaScript code

Paste the JavaScript code of the same page here.

```
1  /* Filename: w6P2.js
2     Target html: w6P2.html
3     Purpose : Perform statistics on an array of values
4     Author: Mario Stavreski
5     Date written: 25/04/2020
6     Revisions:   v1.0
7  */
8
9  // this function performs statistics on an array of values
10     var arrNumbers = [12,14,16,18,20,13,15,17,19,29,28,21]
11     var vIndex = 0;
12     var arrValues = "";
13
14     arrValues = "The values in the array are: ";
15
16     var vIndex = 0;
17
18     for (vIndex = 0; vIndex < arrNumbers.length; vIndex++) {// ocunts the number of values
19       arrValues = arrValues + arrNumbers[vIndex] + ", ";
20     }
21
22     var valuesSum = 0;
23     for (vIndex = 0; vIndex < arrNumbers.length; vIndex++) { //sums all the values in the array
24       valuesSum = valuesSum + arrNumbers[vIndex];
25     }
26
27     var average = 0;
28
29     average = valuesSum / vIndex; // calculates the average value
30
31     document.getElementById('msg').innerHTML = arrValues + "<br/>" + "The Number of values in the array is: " + vIndex + "<br/>" + "The Total of all values is: " + valuesSum + "<br/>" + "The average value is: " + average;
32
33  }
34
35  function init() {
36
37     var btn = document.getElementById('stats');
38     btn.onclick = start;
39
40  }
41
42
43  window.onload = init;
```

Pass Task 14 web page testing

Pass Task: Statistics

Perform Stats

The values in the array are: 12, 14, 16, 18, 20, 13, 15, 17, 19, 29, 28, 21,
The Number of values in the array is: 12
The Total of all values is: 222
The average value is: 18.5

Produced by Mario Stavreski

Paste the screen captures of your testing web page here.