

# Programming Concepts

## Week 6 Pass Submission Tasks Template

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### Pass Task 13 HTML code

Paste the HTML code of the web page here.

```
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.

```

1  /* Filename: w6P1.js
2     Target html: w6P1.html
3     Purpose : display names using for and while loops, count the number of letters in a name
4     Author: Mario Stavreski
5     Date written: 27/04/2020
6     Revisions: v1.0
7  */
8
9  var arrNames = ["Mario", "Brian", "Dominic", "Mia", "Han", "Peter", "Paul", "Andreas"]; //array of names
10
11 function listValuesForLoop() { //Lists the names using a for loop
12
13     var vNames = "";
14     vNames = "This is a list of names using a for loop: ";
15     var vIndex = 0;
16
17     for (vIndex = 0; vIndex < arrNames.length; vIndex++) {
18         vNames = vNames + arrNames[vIndex] + "<br>";
19     }
20
21     document.getElementById('msg1').innerHTML = vNames;
22
23 }
24
25 function listValuesWhileLoop() { // Lists the names using a while loop
26
27     var vNames = "";
28     vNames = "This is a list of names using a for loop: ";
29     var vIndex = arrNames.length - 1;
30
31     while (vIndex >= 0) {
32         vNames = vNames + arrNames[vIndex] + "<br>";
33         vIndex --;
34     }
35
36     document.getElementById('msg2').innerHTML = vNames;
37
38 }
39
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

This is a list of names using a while loop: Andreas

Paul

Peter

Han

Mia

Dominic

Brian

Mario

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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.

```

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, javascript, 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  // Name: 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
10 // this function performs statistics on an array of values
11 var arrNumbers = [12,14,16,18,20,13,15,17,19,29,28,21]
12 var vIndex = 0;
13 var arrValues = "";
14
15 arrValues = "The values in the array are: ";
16
17 var vIndex = 0;
18
19 for (vIndex = 0; vIndex < arrNumbers.length; vIndex++) { // counts the number of values
20   arrValues = arrValues + arrNumbers[vIndex] + ", ";
21 }
22
23 var valuesSum = 0;
24 for (vIndex = 0; vIndex < arrNumbers.length; vIndex++) { // sums all the values in the array
25   valuesSum = valuesSum + arrNumbers[vIndex];
26 }
27
28 var average = 0;
29
30 average = valuesSum / vIndex; // calculates the average value
31
32 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;
33
34 }
35
36 function init() {
37   var btn = document.getElementById("stats");
38   btn.onclick = start;
39 }
40
41
42 window.onload = init;
43

```

## 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.