

Programming Concepts

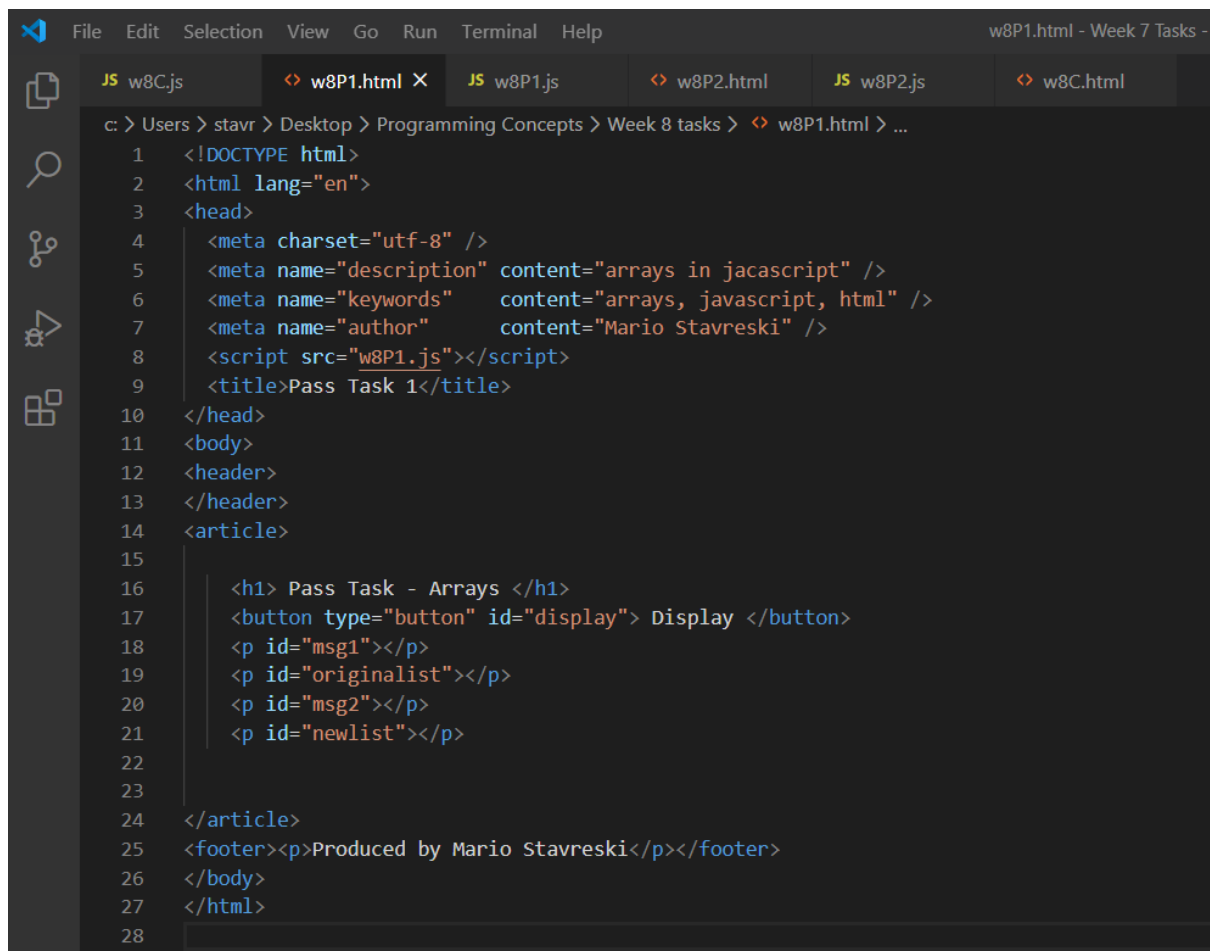
Week 8 Pass Submission Tasks Template

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Pass Task 4 HTML code

Paste the HTML code of the web page here.

A screenshot of a code editor window with a dark theme. The title bar shows 'w8P1.html - Week 7 Tasks -'. The editor has several tabs open: 'JS w8C.js', 'w8P1.html X', 'JS w8P1.js', 'w8P2.html', 'JS w8P2.js', and 'w8C.html'. The active tab is 'w8P1.html'. The code is HTML and is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <meta name="description" content="arrays in jacascript" />
6   <meta name="keywords" content="arrays, javascript, html" />
7   <meta name="author" content="Mario Stavreski" />
8   <script src="w8P1.js"></script>
9   <title>Pass Task 1</title>
10 </head>
11 <body>
12 <header>
13 </header>
14 <article>
15
16   <h1> Pass Task - Arrays </h1>
17   <button type="button" id="display"> Display </button>
18   <p id="msg1"></p>
19   <p id="originalist"></p>
20   <p id="msg2"></p>
21   <p id="newlist"></p>
22
23 </article>
24 <footer><p>Produced by Mario Stavreski</p></footer>
25 </body>
26 </html>
27
28
```

Pass Task 4 JavaScript code

Paste the JavaScript code of the same page here.

```
File Edit Selection View Go Run Terminal Help w8P1.js - Week 7 Tasks - Visual Studio Code
JS w8C.js w8P1.html JS w8P1.js X w8P2.html JS w8P2.js w8C.html
c:\Users> stavr > Desktop > Programming Concepts > Week 8 tasks > JS w8P1.js > displayValues
1  /* Filename: w8P1.js
2     Target html: w8P1.html
3     Purpose : JavaScript array update
4     Author: Mario Stavreski
5     Date written: 15/08/2020
6     Revisions: v1.0
7  */
8
9
10 function start() { //this function creates an array and displays the original and updated lists
11     var arr = [42,69,20,25,15,4,5,24];
12     document.getElementById("msg1").innerHTML = "Arrays before the update: ";
13     document.getElementById("msg2").innerHTML = "Arrays after the update: ";
14
15     var displayOriginal = displayValues(arr);
16     document.getElementById("originalist").innerHTML = displayOriginal;
17
18     updateValues(arr);
19
20     var displayUpdated = displayValues(arr);
21     document.getElementById("newlist").innerHTML = displayUpdated;
22 }
23
24
25 function updateValues(array) { //adds +10 to each value in array
26     var vIndex = 0;
27     for (vIndex = 0; vIndex < array.length; vIndex++) {
28         array[vIndex] = array[vIndex] + 10;
29     }
30 }
31
32 function displayValues(array) { //for loops lists all values
33     var vList = "";
34     var vIndex = 0;
35     for (vIndex = 0; vIndex < array.length; vIndex++) {
36         vList = vList + " " + array[vIndex];
37     }
38     return vList;
39 }
40 function init() {
41     document.getElementById("display").onclick = start;
42 }
43
44 window.onload = init;
45
```

Pass Task 4 web page testing

Paste the screen captures of your testing web page here.

Pass Task - Arrays

Display

Arrays before the update:

42 69 20 25 15 4 5 24

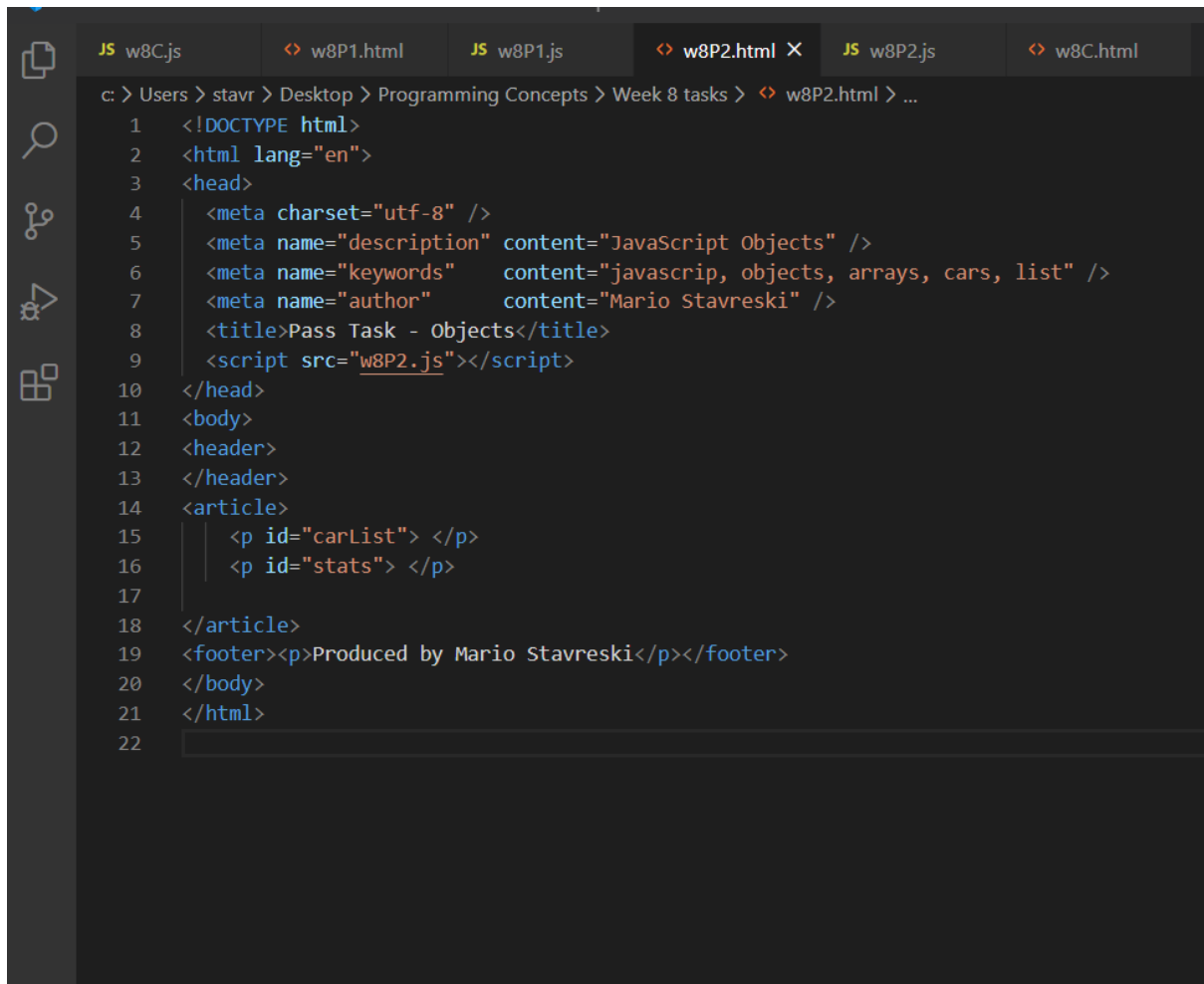
Arrays after the update:

52 79 30 35 25 14 15 34

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[Pass Task 10 HTML code](#)

Paste the HTML code of the web page here.



```
c: > Users > stavr > Desktop > Programming Concepts > Week 8 tasks > w8P2.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="utf-8" />
5      <meta name="description" content="JavaScript Objects" />
6      <meta name="keywords" content="javascrip, objects, arrays, cars, list" />
7      <meta name="author" content="Mario Stavreski" />
8      <title>Pass Task - Objects</title>
9      <script src="w8P2.js"></script>
10 </head>
11 <body>
12 <header>
13 </header>
14 <article>
15     <p id="carList"> </p>
16     <p id="stats"> </p>
17 </article>
18 <footer><p>Produced by Mario Stavreski</p></footer>
19 </body>
20 </html>
21
22
```

Pass Task 10 JavaScript code

Paste the JavaScript code of the same page here.

```
File Edit Selection View Go Run Terminal Help w8P2.js - Week 7 Tasks - Visual Studio Code
JS w8C.js w8P1.html JS w8P1.js w8P2.html JS w8P2.js x w8C.html
c:\Users> stavr > Desktop > Programming Concepts > Week 8 tasks > JS w8P2.js > displayStats
1  /* Filename: w8P2.js
2     Target html: w8P2.html
3     Purpose : Javascript objects
4     Author: Mario Stavreski
5     Date written: 15/05/2020
6     Revisions: v1.0
7  */
8
9  function start() { //creates an arrays and objects stores withn the array, calls function listCars, displayStats
10
11     var vCar1 = {make:"Toyota",colour:"Silver",price:24000};
12     var vCar2 = {make:"Mazda",colour:"Red",price:30000};
13     var vCar3 = {make:"Audi",colour:"Black",price:90000};
14     var arrCars = [vCar1,vCar2,vCar3];
15     listCars(arrCars);
16     displayStats(arrCars);
17
18 }
19
20 function listCars(arrayCars) { //lists the Cars in the array
21
22     var msg = "";
23     var vIndex = 0;
24     for (vIndex = 0; vIndex < arrayCars.length; vIndex++) {
25         msg = msg + "Make: " + arrayCars[vIndex].make + " ";
26         msg = msg + "Colour: " + arrayCars[vIndex].colour + " ";
27         msg = msg + "Price: $" + arrayCars[vIndex].price + "<br/>";
28     }
29     document.getElementById("carList").innerHTML = msg;
30 }
31
32 function displayStats(arrayCars) { // display the number of cars, sums the prices, calculates average price
33     var vIndex = 0;
34     var vTotalPrice = 0;
35     for (vIndex = 0; vIndex < arrayCars.length; vIndex++) {
36         vTotalPrice = vTotalPrice + arrayCars[vIndex].price;
37     }
38     var noOfCars = arrayCars.length;
39     var avgPrice = vTotalPrice / noOfCars;
40     avgPrice = avgPrice.toFixed(2);
41     var msg = "";
42     msg = msg + "Total Cars: " + noOfCars + "<br/>";
43     msg = msg + "Price totals: $" + vTotalPrice + "<br/>";
44     msg = msg + "Average Price: $" + avgPrice + "<br/>";
45     document.getElementById("stats").innerHTML = msg;
46 }
47
48 window.onload = start;
49
```

Pass Task 10 web page testing

Paste the screen captures of your testing web page here.

Make: Toyota Colour: Silver Price: \$24000

Make: Mazda Colour: Red Price: \$30000

Make: Audi Colour: Black Price: \$90000

Total Cars: 3

Price totals: \$144000

Average Price: \$48000.00

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