

Module 3 - Project10_loops_arrays Assignment - Model Answer

```
<!--index.html-->

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8" />
  <title>Project10_loops_array</title>
  <script src="JS/main.js" defer></script>
</head>

<body>
  <!--While Loop function-->
  <button onclick="count_to_Ten()">Click here to start</button>
  <p id="Counting_to_Ten"></p>
  <hr />

  <!--For Loop function-->
  <button onclick="for_Loop()">Join the Band!</button>
  <p id="List_of_Instruments"></p>
  <hr />

  <!--Array function-->
  <button onclick="color_array()">Array of Sunshine!</button>
  <p id="Array"></p>
  <hr />

  <!--Creating an object using let-->
  <button onclick="car()">Click Me!</button>
  <p id="car"></p>
  <hr />
</body>

</html>
```

```
//main.js
```

```
//A function using a while loop
```

```
function count_to_Ten() {  
    var Digit = "";  
    var x = 1;  
    while (x < 11) {  
        Digit += "<br>" + x;  
        x++;  
    }  
    document.getElementById("Counting_to_Ten").innerHTML = Digit;  
}
```

```
//A function using a for loop
```

```
var Instruments = [  
    "Guitar",  
    "Drums",  
    "Piano",  
    "Bass",  
    "Violin",  
    "Trumpet",  
    "Flute",  
];  
var content = "";  
var y;  
function for_Loop() {  
    for (y = 0; y < Instruments.length; y++) {  
        content += Instruments[y] + "<br>";  
    }  
    document.getElementById("List_of_Instruments").innerHTML = content;  
}
```

```
//A function with an array
```

```
function color_array() {  
    var Colors = [];  
    Colors[1] = "Green";  
    Colors[2] = "Red";  
    Colors[3] = "Blue";  
    Colors[4] = "Yellow";  
    Colors[5] = "Orange";  
    Colors[6] = "Purple";  
    document.getElementById("Array").innerHTML =  
        "My favorite color is " + Colors[6] + ".";  
}
```

```
//Creating an object with the let keyword
```

```
function car() {  
    let car = {  
        make: "Nissan",  
        year: "2023",  
        color: "Black",  
    };  
  
    document.getElementById("car").innerHTML =  
        "I have a " + car.year + " " + car.color + " " + car.make + ".";  
}
```