4 - Arrays & Loops

1. WEB CART ARRAY

Create an empty array for a shopping cart.

2. GROCERY CHECKOUT

- Create an array of 5 grocery items.
- Create a new array of prices for the above items.
- Output the FIRST item from both arrays to your browser's JavaScript console.
- Output the LAST item from both arrays to your browser's JavaScript console.

3. MP3 PLAYLIST

- Create an empty array for a music playlist.
- Use the JavaScript function push() to add 5 song titles to the end of your playlist.
- Output the whole array to the console no loop needed.
- Using the length property, display the number of items in your playlist on the console.
- Ready to listen? Now, use shift() to remove the first song from your playlist and output the title to the console.
- Output the remaining array (now, four items) to the console.

4. COUNT TO 10

• Use a *for* loop to count from 0 - 10 in the console.

5. COUNTDOWN

• Use a for loop to count down from 10 to 0.

6. COUNT TO 100

Use a for loop to count from 0 - 100 by twenty in the console. (0, 20, 40...)

7. COLOUR PALLETTE

- Create an empty array to hold colours.
- Create a loop that asks users to add a colour 4 times. Don't worry about validating input.
- Within the loop, add the new colour to the end of the array using the *push()* method.
- After the loop has completed, use another loop to output the colours to the console. Once
 you have that working, try using the length property of the array as the running condition
 for the second loop.

8. ARE YOU SURE?

- Declare a variable and initialize it to false. This is known as a "flag" variable.
- Create a *while* loop that will keep asking the user, "Are you sure?" with a popup box that requires a yes or no answer.
- Use an *if* statement to check if the user input returned *true* (they clicked OK).
- If the user clicked OK, a popup will say, "Oh, good.", and the 'flag' variable needs to be set to true to end the while loop.
- If the user clicks anything but ok, the loop will continue to ask them.

My answers are below...

```
1.
    var cartItems = [];

2.
    var groceryCart = ["Milk", "Bread", "Lemons", "Yogurt", "Pie"];
    var itemPrices = [3.99, 2.85, 4.50, 5.99, 7.99];
    console.log(groceryCart[0]);
    console.log(itemPrices[0]);
    console.log(groceryCart[4]);
    console.log(itemPrices[4]);
```

```
3.
  var myTunes = [];
  myTunes.push("At the Hop");
  myTunes.push("Penny Lane");
  myTunes.push("Disco Inferno");
  myTunes.push("The Reflex");
  myTunes.push("Wonderwall");
  console.log(myTunes);
  console.log(myTunes.length);
  var nextSong = myTunes.shift();
  console.log(nextSong);
  console.log(myTunes);
4.
  for (var i = 0; i <= 10; i = i + 1) {
       console.log(i);
  }
5.
  for (var i = 10; i >= 0; i = i - 1) {
       console.log(i);
  }
6.
  for(var i = 0; i \le 100; i = i + 20){
       console.log(i);
  }
7.
  var myPalette = [];
  for(var i = 0; i <= 3; i = i + 1){
       var getColour = prompt("Add a colour");
       myPalette.push(getColour);
  }
  for (var j = 0; j < myPalette.length; <math>j = j + 1) {
       console.log(myPalette[j]);
  }
```

```
8.
```

```
var checkFlag = false;
while(checkFlag === false) {
    var askUser = confirm("Are you sure?");
    if(askUser === true) {
        alert("Oh, good.");
        checkFlag = true;
    }
}
```