

# Advanced JavaScript – Exercises Lesson 1

## Exercise 1 – Arrays

Step 1:

Create an html file exercise1.html and add the following code

```
<html lang="en">
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Console Log Example</title>
</head>

<body>
  <div id='content'>
  </div>
  <script src="exercise1.js"></script>
</body>
</html>
```

Step 2:

Create a JavaScript file exercise1.js

```
//create an array called numbers that has values 1, 2, 3
//initialize a new empty array called numbersplusone
//iterate through each element of numbers array in the original array

//alter that element adding 1 and put the altered value into the new array

//final array should have [2, 3, 4]
//debug the final value and show it on the console
```

## Exercise 2: Events

Step 1:

Use the following HTML, and add it to an Exercise2.html

```
<html>
```

```
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Console Log Example</title>
</head>

<body>
  Choose A Page and Jump:
  <br/>
  <select id="pages">
    <option value="http://bbc.co.uk">BBC</option>
    <option value="http://itv.co.uk">ITV</option>
    <option value="http://channel5.co.uk">Channel5</option>
  </select>
  <a id="goBtn">Go</a>
  <script src="exercise2.js"></script>
</body>
</html>
```

## Step 2

The logic of this exercise is to click the button and navigate to the page of the dropdown.

Create a javascript file called exercise2.js

```
var button = //Get the element with ID=goBtn

//Add an event listener when the user clicks on the button go to execute the
goPage

//This function determines which page is selected and goes to it.
function goPage(event) {
  var e = //Get the element that has ID pages

  //The following will give you the selected value
  var page = e.options[e.selectedIndex].value;

  //Redirect to a new page using window.location command
}
```

## Exercise 3 – Adding content to the page

Step 1:

The same here as well we will be creating an html page da

```
<html lang="en">
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Exercise3</title>
  </head>
  <body>
    <div id='primary-nav'>

    <script src="exercise2.js"></script>
  </body>
</html>
```

Step 2:

What we want to achieve on this example is to load a button that we can toggle.

Create a new file called exercise3.js

Step 2.1

```
var primaryNav = // Get the element primary-nav

//Declare two variables buttonNode, and toggleButton

// Using document.create element, create a span element and assing the value to
buttonNode variable

// every element has a textContent property, // element.textContent = "value to
show between tags"

// Use that method, to dispay 'Show menu' for the button

//Add class 'menu-toggle' to a button

//Using insertAdjacentElement add afterbegin the buttonNode element and pass it
to toggleButton variable
```

```
toggleButton.addEventListener('click', function () {  
  
  // Toggle the button text  
  
  // If the value of toggleButton.textContent is "Show menu"  
  
  // Then pass to toggleButton's textContent the value "Hide menu"  
  
  // Else pass the value "Show menu"  
  
});
```