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'>  </div>    <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"    }); |