Lab 6 – JS Event exercises

1   Introduction

Now we have learnt event listener and event handler. We will use these DOM level 2 techniques to do exercises. You may see the first three exercises look familiar. Yes we tried to implement them with HTML onclick attribute, or DOM Level 1. Please try using DOM level 2 this week. Also, you will notice the position of statement

```
<script src='dom.js'></script>
```
is now in <head></head>. So, you need to use

```
window.onload = () =>{

}

OR

document.addEventListener('DOMContentLoaded', start)
function start(){

}
```
in your .js file. These are important exercises for the assignment.

2   Learning Objectives

- To understand, and practice responsive design and how we can create layouts and structures that work across all devices
- To understand, and practice using, some JavaScript basics

3   Event exercises

1. Here is a sample html file with a submit button. Now change the content of the paragraph text to 'I am Mary' through JavaScript code.

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset=utf-8 />
    <title>JS DOM 1</title>
    <script src='dom.js'></script>
  </head>
  <body>
    <p id='change'> I am John </p>
    <button type='submit' id='changeContent' value='Change'>
  </body>
</html>
```

2. Write a JavaScript program to get the values of First name and Last name of the following form then pop up a welcome message (hint: use alert() function).

```html
<!DOCTYPE html>
<html>
  <head>
    <meta charset=utf-8 />
    <title>JS DOM 2</title>
    <script src='dom.js'></script>
  </head>
  <body>
    <form>
      First name: <input type="text" id="fname" ><br>
      Last name: <input type="text" id="lname"><br>
      <input type='submit' id='register' value='Register'>
    </form>
  </body>
</html>
```
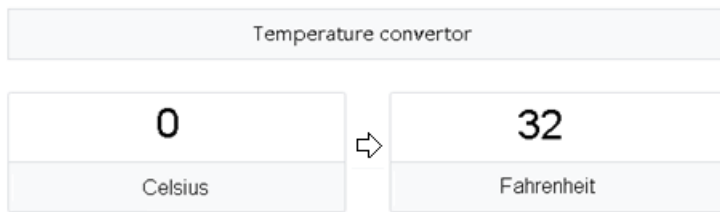
3. Write a JavaScript program to show the user input from a dropdown list in an alert window.

```html
<!DOCTYPE html>
<html>
  <head>
    <meta charset=utf-8 />
    <title>JS DOM 3</title>
    <script src='dom.js'></script>
  </head>
  <body>
    <form>
      <h3>Select your favourite colour: </h3>
      <select id="mySelect">
        <option value=-1>Colour</option>
        <option value=1>Red</option>
        <option value=2>Green</option>
        <option value=3>Blue</option>
        <option value=4>White</option>
      </select>
      <input type='submit' id='choose' value='Send'>
    </form>
  </body>
</html>
```

4. . Write a JavaScript program to realise a temperature convertor.

There are two buttons: Celsius and Fahrenheit.

Formula: (0 ^{0}C + 32) x 9/5 = 32 ^{0}F

5. Review last two slide of Lecture 6, make more video controls, using materials on moodle: Video.zip