**Week 12 [Basics of Javascript]**

**Semester 1**

**Reference Site:**

1. <https://www.w3schools.com/js/>

**Outline:**

1. Events in HTML
2. Introduction to Javascript
3. <script> tag
4. External JS
5. JS variables
6. JS strings, numbers and dates
7. JS if else and for loop
8. JS Functions
9. JS DOM manipulation and event handling

**Lab Tasks:**

1. Create a webpage and create a simple HTML form with two input fields and a button. The input fields should require the user to enter numbers. Create an event handling function in Javascript that prints the sum and difference of entered number in some HTML element.
2. Create two input fields and a button. If value of field 1 is greater than other the script should return product else it should return sum.
3. Create a function in JS that get the date entered by the user and calculate the age by finding the difference between current and entered year and display it in an HTML element.
4. Add an image with a button below and a script which changes the image and also change the height and width of image when the button is clicked.
5. Create a login form which asks the user to enter username and password and after submitting the form the script should verify the user and display message accordingly.
6. Create a page that displays an image banner and two buttons for “Next” and “Previous” below the banner. The buttons when clicked should change the banner image accordingly.

Hint: take a counter variable and increments it after next and decrement it after previous button is clicked. Also creates an array with strings like [‘image1.jpg’, ‘image2.jpg’……].

Counter = 0;

Images = [‘image1.jpg’, ‘image2.jpg’, ‘image3.jpg’ , ’image4.jpg’]

function next()

{

//increment the counter variable

//set src to images[counter]

}

Function previous()

{

//decrement the counter variable

//set src to images[counter]

}