**Documentation Lab 3a – Simple Javascript**

***Link to my page: index.html,formValidationHTML5,formValidationWithJs***

**Three self-defined functions**

*Describe what features you've created, where they're located, what they do, and why you've created them*

1. Feature 1:

* **Location:** program1.js , line#:12
* **function name:** randomNumberGenerator()
* **working:** this function generator random numbers and stored in array
* **purpose:** this function is selfdefined and used to generate random Numbers

2. Feature 2:

* **Location:** program1.js , line#:27
* **function name:** arraySorting()
* **working:** this function is used for sorting array in ascending order
* **purpose:** this function is selfdefined and used to sort array.

3. Feature 3:

* + - **Location:** program2.js , line#:2
    - **function name:** validateForm()
    - **working:** this function is used for validatin input fileds, for example to check that user enter valid email or user eneter password greater than 6 character e.t.c
    - **purpose:** this function is selfdefined and used for validating input fileds.

4.Feature 4:

* **Location:** program2.js , line#:76
* **function name:** setError()
* **working:** this function is used for showing error it gets id and error message from validateForm() function show on screen
* **purpose:** this function is selfdefined and used for showing error message on screen

5.Feature 4:

* + - **Location:** program2.js , line#:82
    - **function name:** setError()
    - **working:** this function is used to remove error message when user renter the valid input
    - **purpose:** this function is selfdefined and used for removing error message

**Three different control/flow kits**  
*Describe what control/flow kits you use, where they are located, what they do, and why you have used them*

1. Control/flow kit 1:

* **Location:** program1.js , line#:13
* **Control/flow kit name:** for loop
* **working:** for loop is used on array to generator random error and store in array
* **purpose:** this is for loop and because I want to include all element of array so I use for loop

2. Control/flow kit 2 :

* **Location:** program1.js , line#:27
* **Control/flow kit name:** nested for loop
* **working:** nested for loop is used on array for sorting. It check each element of array and match with other element of array and arrange elements in array
* **purpose:** this is nested for loop and i want to match all element of array with each other so i use nested for loop

1. Control/flow kit 3:

* **Location:** program2.js , line#:10,15,28,31,47,54,62,68
* **Control/flow kit name:** if and if-else
* **working: these control kits are used for validating input fields**
* **purpose:** for validating if or if-else statement is used so is use this.

**Three different predefined objects**   
*Describe what predefined items you use, where they are located, what they do, and why you have used them*

1. Predefined object 1:

* **Location:** program1.js , line#:10
* **Predefined Object name:** numberArray;
* **Working****:** array object is predefined object of javascript, it is used to store different values in order.
* **purpose:** The Array object allows you to store multiple values ​​in one variable. Stores a sequential collection of elements of the same type with a fixed size.

1. Predefined object 2:

* **Location:** program2.js , line#:4
* **Predefined Object name: returnval**;
* **Working:** A Boolean object represents two values, either "true" or "false". If the value parameter is omitted or is 0, -0, null, false, NaN, undefined, or the empty string (""), the object is initialized to false.
* **purpose:** The Boolean object represents a truth value: true or false

1. Predefined object 3:

* **Location:** program2.js , line#:20
* **Predefined Object name: email**;
* **Working:** The String object is used to represent and manipulate a sequence ofcharacters.
* **purpose:** The String object allows you to work with a series of characters; wraps a primitive Javascript data type with a number of helper methods. Because JavaScript automatically converts between string primitives and String objects, you can call any of the String object's helper methods on a string primitive.