Assignments Lab 4

Assignment 1:

Define an array of numbers [2,1,3,2,7,2,8,4,3,6,10,9,12]

- *Sort them ascending then descending and print the result on console as table.*
- *Filter numbers larger than 5 (use ES6 arrow function)*
- *Display Max and Min Number*
- *Use Array.from function to generate a copy from this array but array elements will be multiplied by 5.*
- *Remove repeated numbers from the array.*
- *Count how many even number exists in the array.*
- *Display the array elements from pervious step as string concatenated with *.*

Search :
a- reduce method : try to sum all array element in one line
b- find and findIndex methods and the difference between them and (indexOf &includes)
c- splice: method
      1- try to remove elements from index 2 to index 4
      2- try to remove elements from index 2 to index 3 and insert new elements starting form index 2   40,50,60,70,80
      3- try to add elements starting from index 3
d- map method , try to map all li's elements to array on strings that contains all textContent of all elements

Assignment 2:

Write JavaScript function that returns array of numbers length
Take the range of randomized numbers from input .
example, min:1, max:10, length:6 (should be even number)
The values inside the array will be from 1 to 10 and any number should appear in the array twice.

Assignment 3:

Now create another Javascript function that takes the array and shuffle it's values, return the shuffled

Assignment 4:

Create 2 Dimensional array of students' grades in courses.

The row contains grades of specified student in all courses

The column contains the grades of all students in the course

For example if we have 4 students and 5 courses then we create 4 x 5 array

Take the grades for each course using prompt fill your array Then display Average grade for each course, total grades for each student