

# JavaScript Lab3

Create javascript external file name it "functionsScript.js" and another external file name it "consumingScript.js"

Now create the following functions:

- 1- **function** accept a full name string and convert each letter of first word to Capital and the remaining to small (Pascal Case).

//Example : 'the quick brown fox'

//Output : 'The Quick Brown Fox'

- 2- **function** that accept a sentence and return the longest word within the input

//Example : 'Web Development Tutorial'

//Output : 'Development'

- 3- Write a JavaScript **function** that returns a passed string with letters in alphabetical order

//Example : javascript

//Output : aacijprstv

- 4- Write a JavaScript **function** to get the month name from a particular date (use Date class)

- 5- Write JavaScript **function** that returns random array of 5 numbers between 1:10 without repetition

Note: the function takes no input.

to create array use the following steps :

let randomNumbers=[];

randomNumbers.push()

Search:

- 1- difference between substring and substr methods in String class
- 2- What is Regular Expressions (patterns)
  - a- try to use built-in match method in string class
  - b- try to create Object from RegExp class and use test method .

**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 from 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