

## JS Day1 Assignment

1- Write a JavaScript function which accepts a string as input and swap the case of each character.

//Example : 'Egypt Country'

//Output : 'eGYPT cOUNTRY'

2-Write a JavaScript function that accepts a string as a parameter and converts the first letter of each word of the string in upper case.

//Example : 'the quick brown fox'

//Output : 'The Quick Brown Fox'

3- Display number of students grades as table in html

a- take total number of students from user using prompt

b- take each student's grade from user

c- using eval and join method to display total students grades

4-Define an array of numbers and find min and max value.

5-Write a JavaScript program to remove duplicate items from an array

6- Create JavaScript function that display 4 numbers as an array randomly each time calling the function (numbers should be between 0 and 9)

7-Write a JavaScript program to find the area of a triangle

Take the lengths from user

Heron's formula states that the area of a triangle whose sides have lengths  $a$ ,  $b$ , and  $c$  is

$$A = \sqrt{s(s-a)(s-b)(s-c)},$$

where  $s$  is the semiperimeter of the triangle; that is,

$$s = \frac{a+b+c}{2}. [2]$$

### BOPNUS

1-Write a JavaScript function removes repeated characters from string

//Example : "thequickbrownfoxjumpsoverthelazydog"

//Output : "thequickbrownfxjmpsvLazydg"

2-check user email address using :

a- your own pure Javascript code

b- Regular expressions ( string.match method )