**COMP 3123 – Full Stack Development – Lab 1**

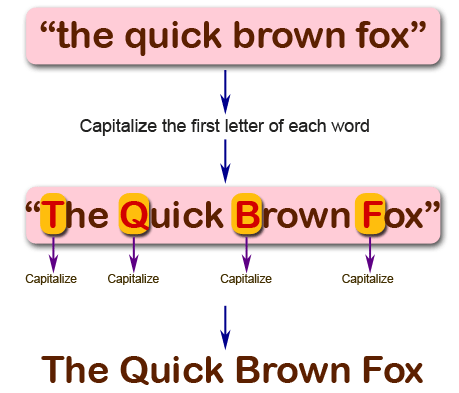
* JavaScript Refresher Exercises

**Developer Note:**

* Answer any 4 of the JavaScript exercises below
* Try to solve the problems without using search engines or stack overflow for the solutions.

**Exercise 1:**

***Write a JavaScript program to capitalize the first letter of each word of a given string.***



**function CapitalizeLetter(s){**

**const sentence = s.split(" ");**

**const words = [];**

**for (let i = 0; i < sentence.length; i++) {**

**words[i] = sentence[i].split("");**

**}**

**for (let i = 0; i < words.length; i++) {**

**words[i][0] = words[i][0].toUpperCase();**

**sentence[i]=words[i].join("");**

**}**

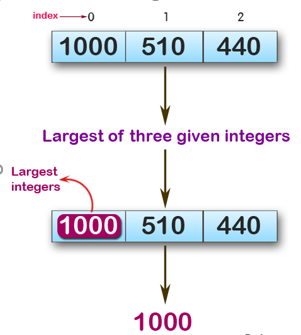
**const result = sentence.join(" ");**

**return result;**

**}**

**Exercise 2:**

***Write a JavaScript program to find the largest of three given integers.***



console.log(max (1,0,1));

console.log(max (0,-10,-20));

console.log(max (1000,510,440));

**Sample Output:**

1  
0  
1000

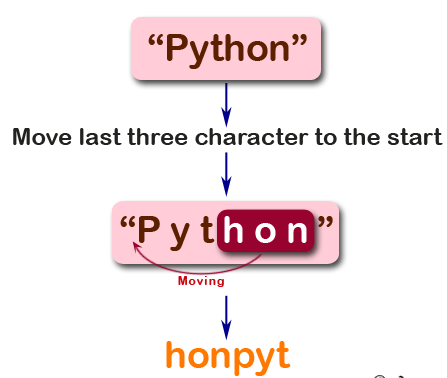
**function max(a, b, c) {**

**return Math.max(a, b, c);**

**}**

**Exercise 3:**

*Write a JavaScript program to move last three character to the start of a given string. The string length must be greater or equal to three****.***



console.log(right("Python"));

console.log(right("JavaScript"));

console.log(right("Hi"));

**Sample Output:**

honPyt  
iptJavaScr  
Hi

**function right(str) {**

**if (str.length < 3) {**

**return str;**

**}**

**const lastThree = str.slice(-3);**

**const remaining = str.slice(0, -3);**

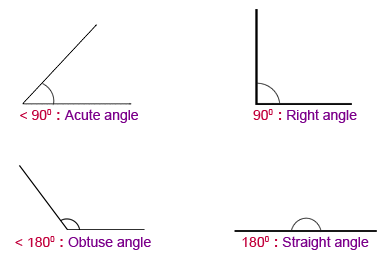
**return lastThree + remaining;**

**}**

**Exercise 4:**

*Write a JavaScript program to find the types of a given angle.*

Types of angles:  
• Acute angle: An angle between 0 and 90 degrees.  
• Right angle: An 90 degree angle.  
• Obtuse angle: An angle between 90 and 180 degrees.  
• Straight angle: A 180 degree angle.



console.log(angle\_Type(47))

console.log(angle\_Type(90))

console.log(angle\_Type(145))

console.log(angle\_Type(180))

**Sample Output:**

Acute angle  
Right angle  
Obtuse angle  
Straight angle

**function angle\_Type(angle) {**

**if (angle > 0 && angle < 90) {**

**return 'Acute angle';**

**} else if (angle === 90) {**

**return 'Right angle';**

**} else if (angle > 90 && angle < 180) {**

**return 'Obtuse angle';**

**} else if (angle === 180) {**

**return 'Straight angle';**

**} else {**

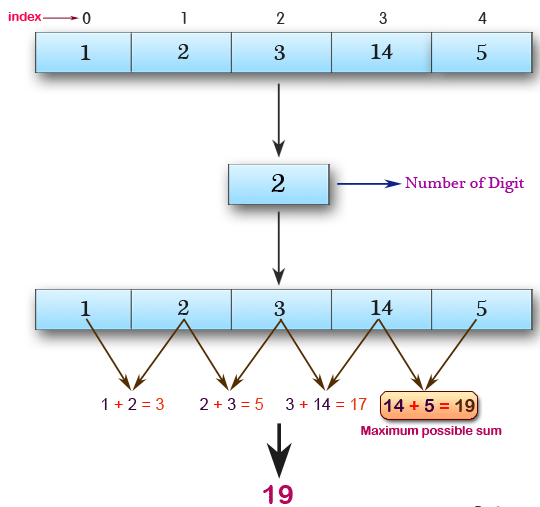
**return 'Invalid angle'; // In case the angle is not between 0 and 180 degrees**

**}**

**}**

**Exercise 5:**

*Write a JavaScript program to find the maximum possible sum of some of its k consecutive numbers (numbers that follow each other in order.) of a given array of positive integers.*



console.log(array\_max\_sum([1, 2, 3, 14, 5], 2))

console.log(array\_max\_sum([2, 3, 5, 1, 6], 3))

console.log(array\_max\_sum([9, 3, 5, 1, 7], 2))

**Sample Output:**

19  
12  
12