LAB EXERCISE – 10

Exercise by using JavaScript and Lua

Write a basic program, which calculates the average of an array which has 5 elements, each assigned a value and compare the result with 0 in JavaScript and Lua, as follows.

define an array and assign values

add all the values by using a loop

calculate the average

compare the average with 0, if it is greater than zero display positive, else display negative

You can use www.tutorialspoint.com or other online compiler

*Send your codes in a text document with the output screenshot*

***JAVASCRIPT***

const arr = []

const arrLength = 5

for(let i=0; i< arrLength; i++) {

arr.push(i\*i)

}

let sum = 0

arr.forEach(x => sum = sum + x)

let average = sum / arrLength

console.log(arr)

console.log(average)

average > 0 ? 'Positive' : 'Negative'

***LUA***

a = {}

for i = 0, 4 do

a[i] = i \* i

print(a[i])

end

sum = 0

for i = 0, 4 do

sum = sum + a[i]

end

counter = 0

for index in pairs(a) do

counter = counter + 1

end

average = sum / counter

print(average)

if average > 0 then print("Positive") else print("Negative") end