15 march 2019

LAB EXERCISE – 5, using arrays

1) Write a Python code to calculate the average of a list (array). Below is a Python code as an example. You may use <https://www.tutorialspoint.com/execute_python_online.php> for online coding.

list4=[1,2,3,4]

for i in range(0, 4):

list4[i]=list4[i]\*4

print list4[0:4]

2) Write a Python code to display the name of the day at the specified index. You will create a list which includes array names. Below is a Python code as an example.

print "printing from a list\n"

list1=['a','t','w']

x= input('Enter the index of the array ')

print list1[x]

3) Run the C code below, and explain why it doesn’t display the exact decimal number you expect. You may write it by Java ( System.out.printf("%.20f", val);)

#include <stdio.h>

// floating point representation error

int main()

{ float i, t=0.0, a=1.0, b=10.0, c;

for (i=0; i<100; i++)

t = t + 0.1;

printf("\n adding 0.1, 100 times t=%10.20f",t);

t=0.1;

printf("\n just displaying 0.1 =%10.20f",t);

printf("\n result of 1/10 =%10.20f",1/10);

c=a/b;

printf("\n c=%10.20f",c);

system("pause"); }