**Programming Assignment 7**

Q.1) Write a Python Program to find sum of array?

Ans.)

l = [1,2,3,-412, 123, 369, 111]

arraySum = 0

for i in l:

    arraySum += i

print("Sum of array: ", arraySum)

Q.2) Write a Python Program to find largest element in an array?

Ans.)

l = [1,2,3,-412, 123, 369, 111]

arrayMax = -9999999999999

for i in l:

    if i > arrayMax:

        arrayMax = i

arrayMax

Q.3) Write a Python Program for array rotation?

Ans.)

l = [1,2,3,-412, 123, 369, 111]

print("Rotated array:")

print(l[::-1])

Q.4) Write a Python Program to Split the array and add the first part to the end?

Ans.)

def splitAdd(l, split):

    '''

    l = list

    split = splitIndex

    '''

    out = []

    for i in range(len(l)):

        index = (i+len(l)+split)%len(l)

        out.append(l[index])

    return out

l = [1,2,3,-412, 123, 369, 111]

splitIndex = 2

splitAdd(l, splitIndex)

Q.5) Write a Python Program to check if given array is Monotonic?

Ans.)

def monotonicCheck(array):

    flag = True

    if array[0] >= array[len(array)-1]:

        for i in range(len(array)-2):

            if array[i] < array[i+1]:

                flag = False

    else:

        for i in range(len(array)-2):

            if array[i] > array[i+1]:

                flag = False

    return flag

array = [1,2,3,56, 124, 369]

monotonicCheck(array)