**Programming Assignment\_7**

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

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

arraySum = 0

for i in l:

arraySum += i

print("Sum of array: ", arraySum)

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

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

arrayMax = -9999999999999

for i in l:

if i > arrayMax:

arrayMax = i

arrayMax

**3. Write a Python Program for array rotation?**

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

print("Rotated array:")

print(l[::-1])

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

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)

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

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)

array = [123,43, 12, 2, -23,-345]

monotonicCheck(array)

array = [123,-23, 783, -98,0, 12]

monotonicCheck(array)