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

n=int(input("Enter the Size of the array "))

array =[ ]

for i in range(0,n):

ele=int(input())

array.append (ele)

print(array)

print(sum(array))

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

n=int(input("Enter the Size of the array "))

array =[ ]

for i in range(0,n):

ele=int(input())

array.append (ele)

print(array)

largest=0

if array[i]>largest:

largest=array[i]

print("Largest Element is : ",largest)

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

test\_list = [1, 4, 6, 7, 2]

print ("Original list : " + str(test\_list))

test\_list = test\_list[3:] + test\_list[:3]

print ("List after left rotate by 3 : " + str(test\_list))

test\_list = test\_list[-3:] + test\_list[:-3]

print ("List after right rotate by 3(back to original) : "

+ str(test\_list))

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

def splitArr(arr, n, k):

for i in range(0, k):

x = arr[0]

for j in range(0, n-1):

arr[j] = arr[j + 1]

arr[n-1] = x

# main

arr = [12, 10, 5, 6, 52, 36]

n = len(arr)

position = 2

splitArr(arr, n, position)

for i in range(0, n):

print(arr[i], end = ' ')

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

def isMonotonic(A):

return (all(A[i] <= A[i + 1] for i in range(len(A) - 1)) or

all(A[i] >= A[i + 1] for i in range(len(A) - 1)))

A = [6, 5, 4, 4]

print(isMonotonic(A))