**Programming Assignment-7**

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

arr = []

arr = [12, 3, 4, 15]

ans = sum(arr)

print ('Sum of the array is ',ans)

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

def largest(arr,n):

max = arr[0]

for i in range(1, n):

if arr[i] > max:

max = arr[i]

return max

arr = [10, 324, 45, 90, 9808]

n = len(arr)

Ans = largest(arr,n)

print ("Largest in given array is",Ans)

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

def rotateArray(arr, n, d):

temp = []

i = 0

while (i < d):

temp.append(arr[i])

i = i + 1

i = 0

while (d < n):

arr[i] = arr[d]

i = i + 1

d = d + 1

arr[:] = arr[: i] + temp

return arr

arr = [1, 2, 3, 4, 5, 6, 7]

print("Array after left rotation is: ", end=' ')

print(rotateArray(arr, len(arr), 2))

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

def splitArr(a, n, k):

b = a[:k]

return (a[k::]+b[::])

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

n = len(arr)

position = 2

arr = 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))