## **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)
```

2. 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)
```

3. 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))
```

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

```
def splitArr(a, n, k):
```

```
b = a[:k]
```

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

def isMonotonic(A):

return (all(A[i] 
$$\leq$$
 A[i + 1] for i in range(len(A) - 1)) or  
all(A[i]  $\geq$  A[i + 1] for i in range(len(A) - 1)))

A = [6, 5, 4, 4] print(isMonotonic(A))