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

**Sol:**

nums = []

print("Enter 5 elements for the list: ")

for i in range(5):

    val = int(input())

    nums.append(val)

sum = 0

for i in range(5):

    sum = sum + nums[i]

print("\nSum of all elements =", sum)

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

Sol:

a = [12,20,33,4,6,7,2]

max\_element = a[0]

for i in range(0,len(a)):

    if(a[i]>max\_element):

        max = a[i]

print("largest element present in the array ",str(max))

3. Write a Python Program for array rotation?

**Sol:**

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

**Sol:**

def SplitArray(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

arr = [15, 40, 15, 16, 50, 36]

n = len(arr)

position = 2

SplitArray(arr, n, position)

for i in range(0, n):

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

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

**Sol:**

#check if monotone

#function definition

def ismonotone(a):

n=len(a) #size of array

if n==1:

return True

else:

#check for monotone behaviour

if all(a[i]>=a[i+1] for i in range(0,n-1) or a[i]<=a[i+1] for i in range(0,n-1)):

return True

else:

return False

A = [6, 5, 4, 2]

print(ismonotone(A))

b = [6, 2, 4, 2]

print(ismonotone(b))

c=[4,3,2]

print(ismonotone(c))

d=[1]

print(ismonotone(d))