1. Write a Python Program to find sum of array?
2. Write a Python Program to find largest element in an array?
3. Write a Python Program for array rotation?
4. Write a Python Program to Split the array and add the first part to the end?
5. Write a Python Program to check if given array is Monotonic?

**Solution: 1**

import array

sample\_array = array.array('i', [1, 2, 3]) #here i means the integer value

s = 0

for i in sample\_array:

s = s+i

print(s)

**Solution: 2**

import array

sample\_array = array.array('i', [1, 2, 3]) #here i means the integer value

print("max in the given array is ", max(sample\_array))

**Solution: 3**

import array as ar

sample\_array = ar.array('i', [1,2,3,4,5,6])

def array\_rotation(arr, d):

length\_of\_array = len(arr)

arr[:] = arr[d:length\_of\_array]+arr[0:d]

return arr

print("array after rotation is ", array\_rotation(sample\_array, 2))

**Solution: 4**

import array as ar

sample\_array = ar.array('i', [1,2,3,4,5,6])

def split\_array\_and\_add(arr, split\_point):

length\_of\_array = len(arr)

arr[:] = arr[split\_point:length\_of\_array]+arr[0:split\_point]

return arr

print("array after split and add is ", split\_array\_and\_add(sample\_array, 2))

**Solution: 5**

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))