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

from array import \*

arr = array('i',[1,3,5,8])

sum = 0

for i in arr:

sum+=i

print ('sum is',sum)

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

from array import \*

arr = array('i',[1,3,5,8])

print(max(arr))

1. Write a Python Program for array rotation?

from array import \*

arr = array('i',[1,3,5,8])

*#array rotation to the left by one position*

*#moving first element to the end*

x = arr[0]

arr.remove(x)

arr.append(x)

print(arr)

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

from array import \*

arr = array('i',[1,3,5,8,9,6])

for i in range(3): *#loop to remove elements from start and adding to end*

y = arr[0]

arr.remove(y)

arr.append(y)

print(arr)

Output : array('i', [8, 9, 6, 1, 3, 5])

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

from array import \*

arr = array('i',[9,8,6,4,2,1])

l=len(arr)

*#if max and min values are at first and last index then its monotonic*

if (max(arr)== arr[0] or max(arr)==arr[l-1]) and (min(arr)== arr[0] or min(arr)==arr[l-1]):

print ('Monotonic')

else:

print ('Not Monotonic')