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

import array as ary

a = ary.array('i', [1, 2, 3, 4])

s = 0

for i in a:

s = s + i

print('Sum of elements in array:',s)

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

import array as ary

a = ary.array('i', [3, 2, 1, 4])

m = a[0]

for i in range(len(a)):

if a[i] > m:

m = a[i]

print('Largest element in the array is:',m)

1. Write a Python Program for array rotation?

d = int(input('Enter the interval by which the array should be rotated: '))

print('Actual array:',a)

a = [1,2,3,4,5,6,7,8,9,10]

l1=[]

l2=[]

for i in range(len(a)):

if i > (d-1):

l1.append(a[i])

for j in range(len(a)):

if j < d:

l2.append(a[j])

l=l1+l2

print('Rotated array:',l)

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

print('Actual array:',a)

a = [1,2,3,4,5,6,7,8,9,10]

d= len(a)/2

l1=[]

l2=[]

for i in range(len(a)):

if i > (d-1):

l1.append(a[i])

for j in range(len(a)):

if j < d:

l2.append(a[j])

l=l1+l2

print('Output array:',l)

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

a = list(map(int, input("Enter multiple values: ").split()))

m,n=0,0

for i in range(len(a)-1):

if a[i+1] >= a[i]:

continue

else:

m = 'asc'

break

for i in range(len(a)-1):

if a[i+1] <= a[i]:

continue

else:

n = 'des'

break

if m == 'asc' and n == 'des':

print('The array is not monotonic')

else:

print('The array is monotonic')