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

arr = [1,2,3,4,5,6,7,8]

s=0

for i in arr:

s+=i

print("sum = ",s)

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

arr = [1,2,3,4,5,6,7,8,10,33,22,34,567,78,34,56,89]

g=arr[0]

for i in arr:

if i>g:

g=i

print("sum = ",g)

1. Write a Python Program for array rotation?

arr = [1,2,3,4,5,6,7,8,10,33,22,34,567,78,34,56,89]

print("original array : ",arr)

n=int(input("enter no of rotation : "))

for i in range(n):

t=arr[0]

arr[0]=arr[len(arr)-1]

arr.insert(1,t)

arr.pop()

print("after rotation : ",arr)

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

arr = [13,12,43,54,56,67,75,78,10,33,22,34,67,78,34,56]

print("original array : ",arr)

for i in range(int(len(arr)/2)):

t=arr[0]

arr[0]=arr[len(arr)-1]

arr.insert(1,t)

arr.pop()

print("after Spliting : ",arr)

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

def monotonic(arr):

print("original array : ",arr)

c=0

if arr[0]>arr[1]:

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

if arr[i]>arr[i+1]:

c=1

else:

c=0

break

else:

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

if arr[i]<arr[i+1]:

c=1

else:

c=0

break

if c==1:

print("Monotonic\n")

else:

print("Non monotonic\n")

arr = [13,12,43,54,56,67,75,78,10,33,22,34,67,78,34,56]

monotonic(arr)

arr=[1,2,3,4,5,6,7,8,9,11,33,45,66]

monotonic(arr)

arr=[110,99,88,66,55,44,33,22,11,9,7,6,4,3,2]

monotonic(arr)