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

def sum\_arr(array):

sum=0

for i in array:

sum=sum+i

return sum

array=eval(input('enter array:'))

print(f'The sum of array{array} is {sum\_arr(array)}')

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

def largest\_element(arr):

max=arr[0]

for i in range(len(arr)):

if arr[i]>max:

max=arr[i]

return max

arr=eval(input('enter array:'))

lar=largest\_element(arr)

print('The largest element is:',lar)

1. Write a Python Program for array rotation?

def array\_rotation(arr,m,n):

temp=[]

i=0

while (i<m):

temp.append(arr[i])

i=i+1

i=0

while (m<n):

arr[i]=arr[m]

i+=1

m+=1

arr[:]=arr[: i]+temp

return arr

arr=eval(input('enter array:'))

rot\_array=array\_rotation(arr,2,len(arr))

print('The array after rotation is:',rot\_array)

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

def split\_add(arr,m,n):

for i in range(0,m):

x=arr[0]

for j in range(0,n-1):

arr[j]=arr[j+1]

arr[n-1]=x

arr=eval(input('enter array:'))

s=split\_add(arr,2,len(arr))

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

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

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

def check\_monotonic(arr):

if (all(arr[i]<=arr[i+1] for i in range(len(arr)-1)) or all(arr[i]>=arr[i+1] for i in range(len(arr)-1))):

print(f'Array {arr} is Monotonic')

else:

print(f'Array {arr} is Not Monotonic')

arr=eval(input('enter array:'))

check\_monotonic(arr)