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

a = [2,3,4,5,6,7]

from functools import reduce

def sum\_arr(n):

    return reduce(lambda x,y : x+y,a)

print(sum\_arr(a))

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

a = [20,32,4,5,6,7]

def large(n):

    res = 0

    for i in n:

        if i > res:

            res = i

    return res

print(large(a))

1. Write a Python Program for array rotation?

a = [20,32,4,5,6,7]

def rot(n,p1):

    res = n.copy()

    for i in range(p1):

        for i in range(len(n)-1):

            res[i+1] = n[i]

        res[0] = n[-1]

        print(res)

        n = res.copy()

    return res

p1 = int(input("enter how many times array needs to be rotate"))

print(rot(a,p1))

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

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

def rot(n):

    test = len(n)

    res = n.copy()

    res  [-int(test/2):] = n[:int(test/2)]

    res [:int(test/2)] = n[-int(test/2):]

    return res

print(rot(a))

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

a = [88,100,99,102,106,109,112]

def check\_mono(n):

    if n == sorted(n) or n == sorted(n,reverse=True):

        print("given list is Monotonic")

    else:

        print("given list is not Monotonic")

check\_mono(a)