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

lst = []

num = int(input("Enter the size of the array: "))

print("Enter array elements: ")

for n in range(num):

numbers = int(input())

lst.append(numbers)

print("Sum:", sum(lst))

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

arr = []

num = int(input("Enter the size of the array: "))

print("Enter array elements: ")

for n in range(num):

numbers = int(input())

arr.append(numbers)

max = arr[0]

     #Loop through the array

for i in range(0, len(arr)):

    #Compare elements of array with max

   if(arr[i] > max):

       max = arr[i];

print("Largest element present in given array: " + str(max));

1. Write a Python Program for array rotation?

def rotateArray(arr, n, d):

    temp = []

    i = 0

    while (i < d):

        temp.append(arr[i])

        i = i + 1

    i = 0

    while (d < n):

        arr[i] = arr[d]

        i = i + 1

        d = d + 1

    arr[:] = arr[: i] + temp

    return arr

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

print("Array after left rotation is: ", end=' ')

print(rotateArray(arr, len(arr), 2))

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

def splitArr(arr, n, k):

    for i in range(0, k):

        x = arr[0]

        for j in range(0, n-1):

            arr[j] = arr[j + 1]

        arr[n-1] = x

arr = [12, 10, 5, 6, 52, 36]

n = len(arr)

position = 2

splitArr(arr, n, position)

for i in range(0, n):

    print(arr[i], end = ' ')

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

def isMonotonic(A):

    return (all(A[i] <= A[i + 1] for i in range(len(A) - 1)) or

            all(A[i] >= A[i + 1] for i in range(len(A) - 1)))

# Driver program

A = [6, 5, 4, 4]

# Print required result

print(isMonotonic(A))