1. def sumOfArray():

in\_arr = eval(input("Enter the Array: "))

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

sumOfArray()

Enter the Array

Output:

Enter the Array: [1,2,3,4,5]

[1, 2, 3, 4, 5] <class 'list'>

The sum of [1, 2, 3, 4, 5] is 15

1. def largestElement():

in\_arr = eval(input("Enter the Array: "))

print(f"The Largest Element in {in\_arr} is {sorted(in\_arr, reverse=True)[0]}")

largestElement()

Output:

Enter the Array: [1,2,3,4,5]

The Largest Element in [1, 2, 3, 4, 5] is 5

1. def reverseOfArray():

in\_arr = eval(input("Enter the Array: "))

print(f"The Reverse of Array {in\_arr} is {in\_arr[::-1]}")

reverseOfArray()

Output:

Enter the Array: [12,16,11,13,30]

The Reverse of Array [12, 16, 11, 13, 30] is [30, 13, 11, 16, 12]

1. def sumOfSplits():

in\_arr = eval(input("Enter the Array: "))

print(f"The Sum of First and Last Elements of Array {in\_arr} is {in\_arr[0]+in\_arr[-1]}")

sumOfSplits()

Output:

Enter the Array: [10,13,14,9,18]

The Sum of First and Last Elements of Array [10, 13, 14, 9, 18] is 28

1. def checkMonotonic():

in\_arr = eval(input("Enter the Array: "))

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

print(f'Array {in\_arr} is Monotonic')

else:

print(f'Array {in\_arr} is Not Monotonic')

checkMonotonic()

checkMonotonic()

Output:

Enter the Array: [1,2,3,4,5]

Array [1, 2, 3, 4, 5] is Monotonic

Enter the Array: 4,2,4,5,6,1

Array (4, 2, 4, 5, 6, 1) is Not Monotonic