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

Ans. def sumOfArray():

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

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

sumOfArray()

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

Ans. 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()

1. Write a Python Program for array rotation?

Ans. def reverseOfArray():

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

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

reverseOfArray()

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

Ans. 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()

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

Ans. 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()