1. Write a Python program to find sum of elements in list?

Ans. def sumofList():

    in\_ele = int(input('Enter the No of Entries in a List: '))

    in\_list = []

    for itr in range(in\_ele):

        in\_list.append(int(input('Enter a element: ')))

    print(f'Sum of Elements: {sum(in\_list)}')

sumofList()

1. Write a Python program to Multiply all numbers in the list?

Ans. def mulofList():

    in\_ele = int(input('Enter the No of Entries in a List: '))

    in\_list = []

    mul = 1

    for itr in range(in\_ele):

        in\_list.append(int(input('Enter a element: ')))

    for ele in in\_list:

        mul = mul \* ele

    print(mul)

mulofList()

1. Write a Python program to find smallest number in a list?

Ans. def smallEleInList():

    in\_ele = int(input('Enter the No of elements in a list: '))

    in\_list = []

    for ele in range(in\_ele):

        in\_list.append(int(input('Enter a Element: ')))

    print(f'The Smallest Element in {in\_list} is {sorted(in\_list)[0]}')

smallEleInList()

1. Write a Python program to find largest number in a list?

Ans. def largestEleInList():

    in\_ele = int(input('Enter the No of elements in a list: '))

    in\_list = []

    for ele in range(in\_ele):

        in\_list.append(int(input('Enter a Element: ')))

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

largestEleInList()

1. Write a Python program to find second largest number in a list?

Ans. def secondLargestEleInList():

    in\_ele = int(input('Enter the No of elements in a list: '))

    in\_list = []

    for ele in range(in\_ele):

        in\_list.append(int(input('Enter a Element: ')))

    print(f'The Second Largest Element in {in\_list} is {sorted(in\_list, reverse=True)[1]}')

secondLargestEleInList()

1. Write a Python program to find N largest elements from a list?

Ans. def nLargestEleInList(k):

    in\_ele = int(input('Enter the No of elements in a list: '))

    in\_list = []

    for ele in range(in\_ele):

        in\_list.append(int(input('Enter a Element: ')))

    print(f'The {k} Largest Element in {in\_list} is {sorted(in\_list, reverse=True)[0:k]}')

nLargestEleInList(4)

1. Write a Python program to print even numbers in a list?

Ans. def evenNoInList():

    in\_ele = int(input('Enter the No of elements in a list: '))

    in\_list = []

    even\_list = []

    for ele in range(in\_ele):

        in\_list.append(int(input('Enter a Element: ')))

    for ele in in\_list:

        if ele%2 == 0:

            even\_list.append(ele)

    print(f'The Even Elements in {in\_list} are {even\_list}')

evenNoInList()

1. Write a Python program to print odd numbers in a List?

Ans. def oddNoInList():

    in\_ele = int(input('Enter the No of elements in a list: '))

    in\_list = []

    odd\_list = []

    for ele in range(in\_ele):

        in\_list.append(int(input('Enter a Element: ')))

    for ele in in\_list:

        if ele%2 != 0:

            odd\_list.append(ele)

    print(f'The Even Elements in {in\_list} are {odd\_list}')

oddNoInList()

1. Write a Python program to Remove empty List from List?

Ans. def checkEmptyList():

    in\_list = eval(input('Enter all elements of the list: '))

    if [] in in\_list:

        print(f'There is an Empty list in {in\_list} at Position {in\_list.index([])}')

        in\_list.remove([])

        print(f'The List after removing [] is {in\_list}')

    else:

        print(f'There is no [] List in the list {in\_list}')

checkEmptyList()

1. Write a Python program to Cloning or Copying a list?

Ans. import copy

def cloneList():

    in\_list = eval(input('Enter a list'))

    print(in\_list, id(in\_list))

    cloned\_list = in\_list.copy()

    print(cloned\_list, id(cloned\_list))

cloneList()

1. Write a Python program to Count occurrences of an element in a list?

Ans. def checkOccurence():

    in\_list = eval(input('Enter the elements of the list: '))

    in\_num = eval(input('Enter the element to find: '))

    count = 0

    if in\_num in in\_list:

        for ele in in\_list:

            if ele == in\_num:

                count = count+1

    print(f'There are {count} occurences of {in\_num} in {in\_list}')

checkOccurence()