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

**Ans: total = 0**

**list1 = [11, 5, 17, 18, 23]**

**for ele in range(0, len(list1)):**

**total = total + list1[ele]**

**print("Sum of all elements in given list: ", total)**

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

**Ans: def multiplyList(myList) :**

**result = 1**

**for x in myList:**

**result = result \* x**

**return result**

**list1 = [1, 2, 3]**

**list2 = [3, 2, 4]**

**print(multiplyList(list1))**

**print(multiplyList(list2))**

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

**Ans: list1 = [10, 20, 1, 45, 99]**

**print("Smallest element is:", min(list1))**

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

**Ans: list1 = [10, 20, 4, 45, 99]**

**print("Largest element is:", max(list1))**

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

**Ans: list1 = [10, 20, 4, 45, 99]**

**mx=max(list1[0],list1[1])**

**secondmax=min(list1[0],list1[1])**

**n =len(list1)**

**for i in range(2,n):**

**if list1[i]>mx:**

**secondmax=mx**

**mx=list1[i]**

**elif list1[i]>secondmax and \**

**mx != list1[i]:**

**secondmax=list1[i]**

**print("Second highest number is : ",\**

**str(secondmax))**

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

**Ans: def Nmaxelements(list1, N):**

**final\_list = []**

**for i in range(0, N):**

**max1 = 0**

**for j in range(len(list1)):**

**if list1[j] > max1:**

**max1 = list1[j];**

**list1.remove(max1);**

**final\_list.append(max1)**

**print(final\_list)**

**list1 = [2, 6, 41, 85, 0, 3, 7, 6, 10]**

**N = 2**

**Nmaxelements(list1, N)**

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

**Ans: list1 = [10, 21, 4, 45, 66, 93]**

**for num in list1:**

**if num % 2 == 0:**

**print(num, end=" ")**

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

**Ans: list1 = [10, 21, 4, 45, 66, 93]**

**for num in list1:**

**if num % 2 != 0:**

**print(num, end = " ")**

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

**Ans: test\_list = [5, 6, [], 3, [], [], 9]**

**print("The original list is : " + str(test\_list))**

**res = [ele for ele in test\_list if ele != []]**

**print ("List after empty list removal : " + str(res))**

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

**Ans: def Cloning(li1):**

**li\_copy = li1[:]**

**return li\_copy**

**li1 = [4, 8, 2, 10, 15, 18]**

**li2 = Cloning(li1)**

**print("Original List:", li1)**

**print("After Cloning:", li2)**

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

**Ans: def countX(lst, x):**

**count = 0**

**for ele in lst:**

**if (ele == x):**

**count = count + 1**

**return count**

**lst = [8, 6, 8, 10, 8, 20, 10, 8, 8]**

**x = 8**

**print('{} has occurred {} times'.format(x, countX(lst, x)))**