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

**Ans:** total = 0  
# creating a list  
list1 = [11, 5, 17, 88, 23]  
# Iterate each element in list  
# and add them in variable total  
for ele in range(0, len(list1)):  
 total = total + list1[ele]  
# printing total value  
print("Sum of all elements in given list: ", total)

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

**Ans:** def multiply(numbers):  
 total = 1  
 for n in numbers:  
 total \*= n  
 return total  
print (multiply ((1, 2, 3, 5, 6, 33)))

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

**Ans:** list1 = [10, 20, 44, 24, 45, 99]  
# sorting the list  
list1.sort()  
# printing the first element  
print("Smallest element is:", \*list1[:1])

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

**Ans:** list1 = [10, 20, 443, 45, 99]  
# sorting the list  
list1.sort()  
# printing the last element  
print("Largest element is:", list1[-1])

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

**Ans:** list1 = [10, 20, 24, 45, 99]  
# new\_list is a set of list1  
new\_list = set(list1)  
# removing the largest element from temp list  
new\_list.remove(max(new\_list))  
# elements in original list are not changed  
# print(list1)  
print(max(new\_list))

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

**Ans:** def N\_max\_elements(list, N):  
 list.sort()  
 return list[-N:]  
# input  
li = []  
n = int(input("Enter size of list "))  
for i in range(0, n):  
 e = int(input("Enter element of list "))  
 li.append(e)  
n = int(input("Enter N"))  
print(n, "max elements in ", li)  
# Calling and printing the function  
print(N\_max\_elements(li, n))

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

**Ans:** list = [10, 21, 14, 45, 66, 93]  
# iterating each number in list  
for num in list:  
 # checking condition  
 if num % 2 == 0:  
 print(num, end=" ")

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

**Ans:** list1 = [10, 21, 54, 45, 66, 93,3]  
# iterating each number in list  
for num in list1:  
 # checking condition  
 if num % 2 != 0:  
 print(num, end=" ")

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

**Ans:** list1 = [[], [], [], 'Red', 'Green', [1,2], 'Blue', [], []]  
print("Original list:")  
print(list1)  
print("\nAfter deleting the empty lists from the said lists of lists")  
list2 = [x for x in list1 if x]  
print(list2)

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

**Ans:** def Cloning(li1):  
 li\_copy = list(li1)  
 return li\_copy  
# Driver Code  
li1 = [4, 8, 32, 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):  
 return lst.count(x)  
# Driver Code  
lst = [8, 6, 8, 10, 8, 20, 10, 8, 8]  
x = 8  
print('{} has occurred {} times'.format(x, countX(lst, x)))