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

ANS:

total = 0

# creating a list

list1 = [11, 5, 17, 18, 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 multiplyList(myList):

# Multiply elements one by one

result = 1

for x in myList:

result = result \* x

return result

# Driver code

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:

# list of numbers

list1 = [10, 20, 4, 45, 99]

# sorting the list

list1.sort()

# printing the first element

print("Smallest element is:", list1[0])

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

ANS:

# list of numbers

list1 = [10, 20, 4, 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:

# list of numbers - length of

# list should be at least 2

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]

elif mx == secondmax and \

secondmax != 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)

# Driver code

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

N = 2

# Calling the function

Nmaxelements(list1, N)

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

ANS:

# list of numbers

list1 = [10, 21, 4, 45, 66, 93]

# iterating each number in list

for num in list1:

# checking condition

if num % 2 == 0:

print(num, end=" ")

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

ANS:

# list of numbers

list1 = [10, 21, 4, 45, 66, 93]

# 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:

# Initializing list

test\_list = [5, 6, [], 3, [], [], 9]

# printing original list

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

# Remove empty List from List

# using list comprehension

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

# printing result

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

# Driver Code

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

# Driver Code

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

x = 8

print('{} has occurred {} times'.format(x,

                                        countX(lst, x)))