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

ANS: a=[]

n= int(input("Enter the number of elements in list:"))

for x in range(0,n):

element=int(input("Enter element" + str(x+1) + ":"))

a.append(element)

b=[sum(a[0:x+1]) for x in range(0,len(a))]

print("The original list is: ",a)

print("The new list is: ",b)

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))

6

24

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])

Smallest element is :4

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])

largest element is :99

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]

elif mx == secondmax and \

secondmax != list1[i]:

secondmax = list1[i]

print("Second highest number is : ",\

str(secondmax))

Second highest number is :45

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)

[85,41]

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

ANS: 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=" ")

10 4 66

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

ANS: 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=" ")

21 45 93

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

ANS: 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))

The original list is: [5, 6, [], 3, [], [], 9]

List after empty list removal[5,6,3,9]

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

ANS: myList = []

length = int(input("Enter number of elements : "))

for i in range(0, length):

value = int(input())

myList.append(value)

# cloning the list

copyList = myList.copy()

# Printing lists

print("Entered List ", myList)

print("Cloned List ", copyList)

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)))

8 has ocurred 5 times