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

Ans: ##sum of elements in list  
l=int(input("enter the length of list"))  
list=[]  
print("enter the elements of list \n")  
#inputs  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
#sum  
def sum\_list(l,list):  
 lis(l,list)  
 print("the list is \n")  
 print(list)  
 sum\_lis = 0  
 for i in list:  
 sum\_lis+=int(i)  
 return(sum\_lis)  
  
print("the sum of elements is ",sum\_list(l,list))

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

Ans: ##multiply of elements in list  
l=int(input("enter the length of list"))  
list=[]  
print("enter the elements of list \n")  
#inputs  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
#multiply  
def mul\_list(l,list):  
 lis(l,list)  
 print("the list is \n")  
 print(list)  
 mul\_lis =1  
 for i in list:  
 mul\_lis\*=float(i)  
 return(mul\_lis)  
  
print("the sum of elements is ",mul\_list(l

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

Ans: #smallest of elements in list  
l=int(input("enter the length of list"))  
list=[]  
print("enter the elements of list \n")  
#inputs  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
#smallest  
def smal\_list(l,list):  
 lis(l,list)  
 print("the list is \n")  
 print(list)  
 smal=float(list[0])  
 for i in list:  
 if float(i)<smal:  
 smal= float(i)  
 return(smal)  
  
print("the smallest element of list is ",smal\_list(l,list))

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

Ans: ##largest of elements in list  
l=int(input("enter the length of list"))  
list=[]  
print("enter the elements of list \n")  
#inputs  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
#largest  
def lar\_list(l,list):  
 lis(l,list)  
 print("the list is \n")  
 print(list)  
 lar=float(list[0])  
 for i in list:  
 if float(i)>lar:  
 lar= float(i)  
 return(lar)  
  
print("the largest element of list is ",lar\_list(l,list))

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

Ans: ##2nd largest of elements in list  
l=int(input("enter the length of list"))  
list=[]  
print("enter the elements of list \n")  
#inputs  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
#largest  
def lar\_list(l,list):  
 lis(l,list)  
 print("the list is \n")  
 print(list)  
 lar=list  
 for i in range(l):  
 for j in range(i+1,l):  
 if float(lar[j])>float(lar[i]):  
 temp=float(lar[i])  
 lar[i]=lar[j]  
 lar[j]=temp  
 return(lar[1])  
  
print(" 2nd largest element is ",lar\_list(l,list))

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

Ans: ##Nth largest of elements in list  
l=int(input("enter the length of list"))  
list=[]  
N=int(input("enter the value of N to find Nth largest element "))  
print("enter the elements of list \n")  
#inputs  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
#largest  
def lar\_list(l,list,N):  
 lis(l,list)  
 print("the list is \n")  
 print(list)  
 lar=list  
 for i in range(l):  
 for j in range(i+1,l):  
 if float(lar[j])>float(lar[i]):  
 temp=float(lar[i])  
 lar[i]=lar[j]  
 lar[j]=temp  
 return(lar[N-1])  
  
print(" {} largest element is ".format(N),lar\_list(l,list,N))

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

Ans: ##even elements in list  
l=int(input("enter the length of list"))  
list=[]  
print("enter the elements of list \n")  
#inputs  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
#even  
def even\_list(l,list):  
 lis(l,list)  
 print("the list is \n")  
 print(list)  
 even=[]  
 for i in list:  
 if float(i)%2==0:  
 even.append(i)  
 return(even)  
E= even\_list(l,list)  
print("the even elements are : ")  
for i in E:  
 print(i,end=',')

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

Ans##odd elements in list  
l=int(input("enter the length of list"))  
list=[]  
print("enter the elements of list \n")  
#inputs  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
#odd  
def odd\_list(l,list):  
 lis(l,list)  
 print("the list is \n")  
 print(list)  
 odd=[]  
 for i in list:  
 if float(i)%2!=0:  
 odd.append(i)  
 return(odd)  
O= odd\_list(l,list)  
print("the odd elements are : ")  
for i in O:  
 print(i,end=',')

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

Ans:##empty list in list  
l=int(input("enter the length of list"))  
list=[]  
print("enter the elements of list \n")  
#inputs  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
# removal of empty list  
def rem\_emp\_lis(l,list):  
 lis(l,list)  
 print("the given list :",list)  
 list2 = [x for x in list if x !='[]']  
 return(list2)  
print("the new list after removal of empty list : ",rem\_emp\_lis(l,list))

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

Ans:

##copying list  
l=int(input("enter the length of list"))  
list=[]  
print("enter the elements of list \n")  
#inputs  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
def copy(l,list):  
 copy\_list=[]  
 lis(l,list)  
 print("the given list : ",list)  
 for i in list:  
 copy\_list.append(i)  
 return(copy\_list)

def copy1(l,list):  
 lis(l,list)  
 copy1\_list = list.copy()  
 return(copy1\_list)

print("the copied list: ",copy(l,list))

print("the copied list using copy method : ",copy1(l,list))

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

Ans: ##occurrences in list  
l=int(input("enter the length of list"))  
list=[]  
print("enter the elements of list \n")  
#inputs  
  
  
def lis(l,list):  
 for i in range(l):  
 n=input()  
 list.append(n)  
 return(list)  
def count(l,list,C):  
 lis(l,list)  
 print("the given list :",list)  
 c=0  
 for i in list:  
 if(i==C):  
 c=c+1  
 return(c)  
C = input("enter the element for which you want to find no of occurrences ")  
print("the no of occurrences of {} in the list : ".format(C),count(l,list,C))