>>>#Albert George

>>>#14

def main():

deci=eval(input("enter a number to add digits"))

NumSum=FindSum(deci)

print (NumSum)

def FindSum(num):

if num<10:

return num

digit=num%10

newnum=digit+FindSum(num//10)

return newnum

>>> main()

Enter a number. Enter 0 to stop. 20

The sum of the digits of 20 = 2

Enter a number. Enter 0 to stop. 17

The sum of the digits of 17 = 8

Enter a number. Enter 0 to stop. 232

The sum of the digits of 232 = 7

Enter a number. Enter 0 to stop. 0

>>>

>>>#Albert George

>>>#15

def main():

deci=eval(input("enter a number to add "))

digits=[int(x) for x in str(deci)]

Largest=FindBig(digits)

print (Largest)

def FindBig(List):

if len(List)==1:

return List[0]

MaxNow=FindBig(List[:-1])

if MaxNow < List[-1]:

return List[-1]

return MaxNow

>>> main()

Enter a number. Enter 0 to stop. 2017

The largest number of the digits of 2017 is 7

Enter a number. Enter 0 to stop. 1954

The largest number of the digits of 1954 is 9

Enter a number. Enter 0 to stop. 1776

The largest number of the digits of 1776 is 7

Enter a number. Enter 0 to stop. 160749

The largest number of the digits of 160749 is 9

Enter a number. Enter 0 to stop. 1

The largest number of the digits of 1 is 1

Enter a number. Enter 0 to stop. 0

>>>

>>>#Albert George

>>>#16

>>> def GetNumbers(L): #recursive function to get numbers into a list

x=eval(input("Enter a number. Enter -999 to stop. "))

if x!=-999:

L.append(x)

GetNumbers(L)

return L

>>> def SumOfNum(NumList): #funciton to add numbers from list

theSum=0

for i in NumList:

theSum+=i

return theSum

>>> def main():

L=[]

x=GetNumbers(L)

y=SumOfNum(x)

print("The sum of the numbers entered is ", y)

>>> main()

Enter a number. Enter -999 to stop. 1

Enter a number. Enter -999 to stop. 2

Enter a number. Enter -999 to stop. 3

Enter a number. Enter -999 to stop. 4

Enter a number. Enter -999 to stop. 5

Enter a number. Enter -999 to stop. -999

The sum of the numbers entered is 15

>>> main()

Enter a number. Enter -999 to stop. 15

Enter a number. Enter -999 to stop. 27

Enter a number. Enter -999 to stop. -999

The sum of the numbers entered is 42

>>>

>>>#Albert George

>>>#17

def main():

L=[]

deci=eval(input("enter a number to add "))

while deci != 0:

L.append(deci)

deci=eval(input("enter a number to add "))

Largest=FindBig(L)

print (Largest)

def FindBig(List):

if len(List)==1:

return List[0]

MaxNow=FindBig(List[:-1])

if MaxNow < List[-1]:

return List[-1]

return MaxNow

>>> main()

Enter a number. Enter -999 to stop1

Enter a number. Enter -999 to stop2

Enter a number. Enter -999 to stop3

Enter a number. Enter -999 to stop4

Enter a number. Enter -999 to stop5

Enter a number. Enter -999 to stop6

Enter a number. Enter -999 to stop-999

The largest number out of [1, 2, 3, 4, 5, 6] is 6

>>> main()

Enter a number. Enter -999 to stop26

Enter a number. Enter -999 to stop54

Enter a number. Enter -999 to stop97

Enter a number. Enter -999 to stop82

Enter a number. Enter -999 to stop76

Enter a number. Enter -999 to stop54

Enter a number. Enter -999 to stop101

Enter a number. Enter -999 to stop78

Enter a number. Enter -999 to stop92

Enter a number. Enter -999 to stop-999

The largest number out of [26, 54, 97, 82, 76, 54, 101, 78, 92] is 101