**Write a program that computes the net amount of a bank account based on a transaction log from console input. The transaction log/sample input is in the format as shown below:**

**Input**

log\_message = D:100 W:10

**Output**

90

**Input**

Log\_message = D:100 W:200 D:400

**Output**

300 (100 - 200 + 400 = 300)

**Solution:**

**Solution 1: Used list data type to pass the input.**

**Solution 2: used as string and split function for the input**

**Code 1:**

def calculate\_net\_amount(trans\_list):

net\_amount = 0

for i in trans\_list:

if(i[0] == 'D'):

net\_amount = net\_amount + int(i[2::])

elif(i[0] == 'W'):

net\_amount = net\_amount - int(i[2::])

return net\_amount

trans\_list=["D:100","W:200","D:400"]

print(calculate\_net\_amount(trans\_list))

**Code 2:**

netamount = 0

log\_message = input("Enter the transaction log (e.g., D:100 W:10): ")

transactions = log\_message.split()

for transaction in transactions:

transaction\_type, amount\_str = transaction.split(':') # Split the transaction into type (D or W) and amount

amount = int(amount\_str)

if transaction\_type == 'D':

netamount += amount

elif transaction\_type == 'W':

netamount -= amount

print("Final balance:", netamount)

