**Problem Statement - 1**

1. **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:**

def compute\_net\_amount(transaction\_log):

balance = 0

transactions = transaction\_log.split()

for transaction in transactions:

if transaction.startswith('D:'):

#Deposit transaction

amount = int(transaction[2:])

balance += amount

elif transaction.startswith('W:'):

# Withdrawal transaction

amount = int(transaction[2:])

balance -= amount

return balance

if \_\_name\_\_ == "\_\_main\_\_":

log\_message = input("Enter the transaction log in the format D:100 W:10: ")

net\_amount = compute\_net\_amount(log\_message)

print("Net Amount:", net\_amount)

**Input**

log\_message = D:100 W:10

**Output**

90

A screenshot of a computer

Description automatically generated

**Input**

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

**Output**

300 (100 - 200 + 400 = 300)

A screenshot of a computer

Description automatically generated