

- Write a Python program that computes the net amount of a bank account based a transaction log from console input. The transaction log format is shown as following: D 100 W 200 (Withdrawal is not allowed if balance is going negative. Write functions for withdraw and deposit) D means deposit while W means withdrawal.
Suppose the following input is supplied to the program:
D 300, D 300 , W 200, D 100 Then, the output should be: 500.

```
def process_transaction(transaction):
    parts = transaction.split()

    if len(parts) != 2:
        print("Invalid transaction format :",transaction)
        return 0
    action, amount_str = parts

    if not amount_str.isdigit():
        print("Invalid amount in transaction :",transaction)
        return 0
    amount = int(amount_str)

    if action == 'D':
        return deposit(amount)

    elif action == 'W':
        return withdraw(amount)

    else:
        print("Invalid action in transaction :", transaction)
        return 0

def deposit (amount):
    global balance
    balance += amount
    return balance

def withdraw (amount):
    global balance
    if balance >= amount:
        balance-=amount

    else:
        print("Insufficient balance for withdrawal :",amount)

    return balance
```

```
if __name__=="__main__":  
    transactions = input("Enter transaction log (e.g., D 300, D 300, W 200,  
D 100):").strip().split(',')  
  
    balance = 0  
    for transaction in transactions:  
        balance = process_transaction(transaction.strip())  
  
    print("Net amount in the account :",balance)
```

// OUTPUT

Output Clear

```
Enter transaction log (e.g., D 300, D 300, W 200, D 100): D 300, D 300, W 200, D 100D  
300, D 300, W 200, D 100  
Net amount in the account : 500  
  
=== Code Execution Successful ===
```