



# TRANSACTION LOG APPLICATION (FUNCTION-BASED)



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Write a Python program that simulates a simple Transaction Log App. The program should allow the user to perform deposits, withdrawals, and view their transaction history using functions.



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# REQUIREMENTS

Implement the following functions:

1. `deposit(amount, account_balance, transactions)`

- Adds the amount to `account_balance`.
- Record the transaction in the format:  
"Deposited: ₦{amount} | New Balance: ₦{account\_balance}"
- Returns the updated `account_balance`.



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## 2. withdraw(amount, account\_balance, transactions)

- Deducts the amount from account\_balance.
- If successful, records:  
"Withdrew: ~~N~~{amount} | New Balance: ~~N~~{account\_balance}".
- If failed, records:  
"Withdrawal failed: insufficient funds".
- Returns the updated account\_balance.

## 3. show\_transactions(transactions)

- displays all transactions in order.
- If there are no transactions yet, print "No transactions yet.".



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In your main program:

- Initialize `account_balance` and transactions.
- Continuously prompt the user to:
  - Deposit money
  - Withdraw money
  - Show transaction history
  - Exit the program
- When the user exits, display their final balance and all recorded transactions.





## Welcome to Transaction Log App

1. Deposit
2. Withdraw
3. Show Transactions
4. Exit

Enter your choice: 1

Enter deposit amount: 1000

Deposited: ₦1000 | New Balance: ₦1000

Enter your choice: 2

Enter withdrawal amount: 400

Withdrew: ₦400 | New Balance: ₦600

Enter your choice: 3

Transactions so far:

1. Deposited: ₦1000 | New Balance: ₦1000

2. Withdrew: ₦400 | New Balance: ₦600

Enter your choice: 4

Final Balance: ₦600

Thank you for using Transaction Log App!

