Develop a system that stimulates basic bank account operations like deposits, withdrawals, and balance inquires. You should use classes to model accounts.

CODE:

#include <iostream>

#include <string>

using namespace std;

class Account {

public:

Account(string name, long long accountNumber, double balance) : name(name), accountNumber(accountNumber), balance(balance) {}

string getName() const { return name; }

long long getAccountNumber() const { return accountNumber; }

double getBalance() const { return balance; }

void deposit(double amount) {

balance += amount;

cout << "Deposit successful! New balance: ₹" << balance << endl;

}

void withdraw(double amount) {

if (amount > balance) {

cout << "Insufficient funds!" << endl;

} else {

balance -= amount;

cout << "Withdrawal successful! New balance: ₹" << balance << endl;

}

}

void showBalance() const {

cout << "Current balance for account " << accountNumber << ": ₹" << balance << endl;

}

private:

string name;

long accountNumber;

double balance;

};

int main() {

string name;

long accountNumber;

double balance;

cout << "Enter your name: ";

getline(cin, name);

cout << "Enter your account number: ";

cin >> accountNumber;

cout << "Enter your account balance: ";

cin >> balance;

Account account(name, accountNumber, balance);

int choice;

do {

// Display menu

cout << "\n--- Bank Account Menu ---" << endl;

cout << "1. Deposit" << endl;

cout << "2. Withdraw" << endl;

cout << "3. Check balance" << endl;

cout << "4. Exit" << endl;

cout << "Enter your choice: ";

cin >> choice;

switch (choice) {

case 1:

double depositAmount;

cout << "Enter deposit amount: ";

cin >> depositAmount;

account.deposit(depositAmount);

break;

case 2:

double withdrawAmount;

cout << "Enter withdrawal amount: ";

cin >> withdrawAmount;

account.withdraw(withdrawAmount);

break;

case 3:

account.showBalance();

break;

case 4:

cout << "Thank you for using the bank account system!" << endl;

break;

default:

cout << "Invalid choice. Please try again." << endl;

break;

}

} while (choice != 4);

return 0;

}