```
1 #include <iostream>
 2 #include <string>
 3 using namespace std;
 4
5 class BankAccount {
 6 private:
7
       int accountNumber;
 8
        double balance;
9
        string accountHolderName;
10
11 public:
12
       BankAccount(int accNum, double initialBalance, string holderName)
13
           : accountNumber(accNum), balance(initialBalance), accountHolderName(holderName) {}
14
15
16
       // Function to deposit an amount
17
        void deposit(double amount) {
18
           if (amount > 0) {
19
                balance += amount;
20
                cout << "Deposited " << amount << " into account " << accountNumber << ".\n";</pre>
21
22
                cout << "Invalid deposit amount.\n";</pre>
23
24
       }
25
26
       // Function to withdraw an amount
27
        void withdraw(double amount) {
28
            if (amount > 0 && amount <= balance) {</pre>
29
                balance -= amount;
30
                cout << "Withdrew " << amount << " from account " << accountNumber << ".\n";</pre>
            } else {
31
                cout << "Insufficient balance or invalid amount for account " << accountNumber << ".\n";</pre>
32
33
34
        }
35
        // Function to display balance
36
        void displayBalance() const {
37
           cout << "Account Number: " << accountNumber</pre>
38
                 << ", Account Holder: " << accountHolderName
39
40
                 << ", Balance: " << balance << "\n";
41
42
   };
43
44 int main() {
45
       // Array to store multiple bank accounts
46
        const int numAccounts = 3;
47
        BankAccount accounts[numAccounts] = {
            BankAccount(101, 500.0, "Stephen"),
48
            BankAccount(102, 1000.0, "Elisha"),
49
            BankAccount(103, 750.0, "Gachoka")
50
51
        };
52
53
        // Display each account's details
54
        cout << "Initial Account Details:\n";</pre>
        for (int i = 0; i < numAccounts; i++) {</pre>
55
            accounts[i].displayBalance();
56
57
58
59
        // Perform deposit and withdrawal on each account
60
        cout << "\nPerforming transactions...\n";</pre>
        for (int i = 0; i < numAccounts; i++) {</pre>
61
62
            double depositAmount = 200.0; // Example deposit amount
63
            double withdrawalAmount = 150.0; // Example withdrawal amount
64
65
            accounts[i].deposit(depositAmount);
66
            accounts[i].withdraw(withdrawalAmount);
```

```
67
68
69
      // Display each account's details after transactions
70
       cout << "\nAccount Details After Transactions:\n";</pre>
71
       for (int i = 0; i < numAccounts; i++) {</pre>
72
           accounts[i].displayBalance();
73
74
75
        return 0;
76 }
77
```