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|  | Object-Oriented and State-Based Testing - Project Report |
|  |  |
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object-oriented and state-based testing

# Goal

The goal of this project is to test and *account* class that exhibits state behavior specified by the given source code of the class *account* and EFSM model given below:



Figure : EFSM of *Account* class

Figure : Java Code of *Account* class

Table

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Graphical user interface

Description automatically generated

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Description automatically generated

In this project, the goal is to test the provided implementation (source code) of the account class. To test the *account* class, we are supposed to implement a testing environment that should contain a class driver to execute test cases. The following testing methods should be used:

1. **Model-based testing of the *Account* class:** Use the provided EFSM model to test the *account* class. Design test cases for the *account* class so that all 2-transition sequences testing criterion (all transition-pairs) is satisfied based on the provided EFSM, i.e., all 2- transition sequences are exercised during testing.
2. **Default (ghost) transition testing of the *Account* class:** Design a set of additional test cases so each default (ghost) transition in the EFSM is tested.
3. **Multiple-condition Testing of the *Account* Class:** Use multiple-condition testing to design additional test cases to test predicates of conditional statements in operations/methods. Notice that if a predicate contains only a simple condition, the multiple-condition testing is equivalent to the branch testing for this predicate.

In the testing environment, we must introduce “testing-oriented” methods (in the  *account* class) that will be used to watch the “internal states” of an *account* object to determine the correctness/incorrectness of the results for the test cases.

# Descriptioin of *account* class

An account requires a minimum balance of 200. If a balance is below a minimum balance in the account, a fee is imposed on each transaction (withdraw, deposit). Before any account transactions can be performed on the account, operation *login()* must be issued followed by *pin()* operation. The *pin()* operation must contain the valid pin # (parameter x) that must be the same as the pin # provided in the *open()* operation (parameter y). It is allowed a maximum of 3 attempts to "provide" an invalid pin. An account can be locked. When an account is locked, no transaction can be performed on the account (except *unlock()* and *balance()* operations). For the simplicity of implementation, all deposit and withdrawal transactions are performed in the whole dollar amounts only (no cents). The EFSM model for the *account* class is provided above. Notice that the EFSM model specifies the expected behavior of the account class.

## Operation supported by the *account* class*:*

The following operations are supported by the *account* class:

| Class *Account*: | | |
| --- | --- | --- |
| Operation | Description | |
| account() | | Constructor |
| int open(int z, int y, int x) | | Sets balance to the value of x, pin number to the value of y, and an account # to the value of z |
| int login(int x) | | Allows to login to the account, where x is an account # |
| int logout() | | Allows to logout from the account |
| int pin(int x) | | Provides pin # (parameter x) |
| int deposit (int d) | | Deposits amount d to the account |
| int withdraw (int w) | | Withdraws amount w from the account |
| int balance () | | Returns the value of the account balance |
| int lock (int x) | | Locks an account where x is the lock # |
| int unlock (int x) | | Unlocks an account when x equals to the correct lock # |

Unless stated differently, each method (operation) returns 0 when the operation is successfully completed; otherwise, negative value -1 is returned.

# Testing

## Driver Class for Testing

To test the *account* class, a test driver class named “TestDriver” and a few testing-oriented methods in *account* class such as *show\_balance(), getCurrentState(), getLockedStatus()* and *getNumbeOfUnsuccessfulLoginAttemts().* The file named “TestDriver.java” and updated “account.java” is provided and has been submitted in blackboard. The test cases are performed as below:

## Model-based testing of the *account* class

### Inbound and Outbound Transition for Each State

To start with model-based testing, firstly we have found the Inbound and Outbound Transition for each state as given below:

| State | Inbound Transition | Outbound Transition |
| --- | --- | --- |
| IDLE | T1, T5, T6, T7, T9, T10 | T2, T7 |
| CHECK PIN | T2, T3 | T3, T5, T6, T8, T18 |
| READY | T11, T12, T13, T16, T17, T18 | T4, T10, T11, T12, T13, T14 |
| OVERDRAWN | T8, T14, T19, T21, T22 | T9, T16, T20, T21, T22 |
| LOCKED | T4, T15, T20 | T15, T17, T19 |

### Transition-pair for IDLE State

Using the above inbound and outbound transition we have found the below transition pair. For each transition-pair which test case in the test suite (TS.txt file) executes and covers that transition-pair is also provided. All the test case given are described later in this report.

| Transition-pair | | Covered by Test Case Number |
| --- | --- | --- |
| Inbound | Outbound |
| T1 | T2 | TestCase#2 |
| T1 | T7 | TestCase#1 |
| T5 | T2 | TestCase#2 |
| T5 | T7 | TestCase#1 |
| T6 | T2 | TestCase#2 |
| T6 | T7 | TestCase#1 |
| T7 | T2 | TestCase#1 |
| T7 | T7 | TestCase#1 |
| T9 | T2 | TestCase#2 |
| T9 | T7 | TestCase#2 |
| T10 | T2 | TestCase#3 |
| T10 | T7 | TestCase#1 |

### Transition-pair for CHECK PIN State

Using the above inbound and outbound transition we have found the below transition pair. For each transition-pair which test case in the test suite (TS.txt file) executes and covers that transition-pair is also provided.

| Transition-pair | | Covered by Test Case Number |
| --- | --- | --- |
| Inbound | Outbound |
| T2 | T3 | TestCase#1 |
| T2 | T5 | TestCase#1 |
| T2 | T6 | Impossible |
| T2 | T8 | TestCase#2 |
| T2 | T18 | TestCase#1 |
| T3 | T3 | TestCase#1 |
| T3 | T5 | TestCase#2 |
| T3 | T6 | TestCase#1 |
| T3 | T8 | TestCase#2 |
| T3 | T18 | TestCase#3 |

### Transition-pair for READY State

Using the above inbound and outbound transition we have found the below transition pair. For each transition-pair which test case in the test suite (TS.txt file) executes and covers that transition-pair is also provided.

| Transition-pair | | Covered by Test Case Number |
| --- | --- | --- |
| Inbound | Outbound |
| T11 | T4 | TestCase#3 |
| T11 | T10 | TestCase#5 |
| T11 | T11 | TestCase#1 |
| T11 | T12 | TestCase#3 |
| T11 | T13 | TestCase#1 |
| T11 | T14 | TestCase#5 |
| T12 | T4 | TestCase#1 |
| T12 | T10 | TestCase#5 |
| T12 | T11 | TestCase#3 |
| T12 | T12 | TestCase#1 |
| T12 | T13 | TestCase#3 |
| T12 | T14 | TestCase#3 |
| T13 | T4 | TestCase#3 |
| T13 | T10 | TestCase#1 |
| T13 | T11 | TestCase#1 |
| T13 | T12 | TestCase#1 |
| T13 | T13 | TestCase#1 |
| T13 | T14 | TestCase#1 |
| T16 | T4 | TestCase#5 |
| T16 | T10 | TestCase#3 |
| T16 | T11 | TestCase#3 |
| T16 | T12 | TestCase#3 |
| T16 | T13 | TestCase#1 |
| T16 | T14 | TestCase#2 |
| T17 | T4 | TestCase#1 |
| T17 | T10 | TestCase#5 |
| T17 | T11 | TestCase#5 |
| T17 | T12 | TestCase#3 |
| T17 | T13 | TestCase#1 |
| T17 | T14 | TestCase#3 |
| T18 | T4 | TestCase#5 |
| T18 | T10 | TestCase#5 |
| T18 | T11 | TestCase#5 |
| T18 | T12 | TestCase#5 |
| T18 | T13 | TestCase#1 |
| T18 | T14 | TestCase#3 |

### Transition-pair for OVERDRAWN State

Using the above inbound and outbound transition we have found the below transition pair. For each transition-pair which test case in the test suite (TS.txt file) executes and covers that transition-pair is also provided.

| Transition-pair | | Covered by Test Case Number |
| --- | --- | --- |
| Inbound | Outbound |
| T8 | T9 | TestCase#4 |
| T8 | T16 | TestCase#3 |
| T8 | T20 | TestCase#2 |
| T8 | T21 | TestCase#2 |
| T8 | T22 | TestCase#2 |
| T14 | T9 | TestCase#3 |
| T14 | T16 | TestCase#3 |
| T14 | T20 | TestCase#1 |
| T14 | T21 | TestCase#3 |
| T14 | T22 | TestCase#2 |
| T19 | T9 | TestCase#3 |
| T19 | T16 | TestCase#3 |
| T19 | T20 | TestCase#2 |
| T19 | T21 | TestCase#1 |
| T19 | T22 | TestCase#1 |
| T21 | T9 | TestCase#2 |
| T21 | T16 | TestCase#2 |
| T21 | T20 | TestCase#2 |
| T21 | T21 | TestCase#2 |
| T21 | T22 | TestCase#1 |
| T22 | T9 | TestCase#1 |
| T22 | T16 | TestCase#1 |
| T22 | T20 | TestCase#1 |
| T22 | T21 | TestCase#1 |
| T22 | T22 | TestCase#1 |

### Transition-pair for LOCKED State

Using the above inbound and outbound transition we have found the below transition pair. For each transition-pair which test case in the test suite (TS.txt file) executes and covers that transition-pair is also provided.

| Transition-pair | | Covered by Test Case Number |
| --- | --- | --- |
| Inbound | Outbound |
| T4 | T15 | TestCase#1 |
| T4 | T17 | TestCase#1 |
| T4 | T19 | Impossible |
| T15 | T15 | TestCase#1 |
| T15 | T17 | TestCase#1 |
| T15 | T19 | TestCase#1 |
| T20 | T15 | TestCase#1 |
| T20 | T17 | Impossible |
| T20 | T19 | TestCase#1 |

### Non-executable Transition Pair

#### Transition Pair T2-T6 (CHECK PIN State)

After T2 transition the system is in CHECK PIN state then *attempt = 0*, so it is never possible to take T6 transition path just after T2 transition.

#### Transition Pair T4-T19 (LOCKED State)

After T4 transition the system is in LOCKED state then it is a precondition that balance , so it was in READY state before and it is never possible to take T19 transition just after T4, unlocking and moved to OVERDRAWN state.

#### Transition Pair T20-T17 (LOCKED State)

After T20 transition the system is in LOCKED state then it is a precondition that balance , so it was in OVERDRAWN state and it is never possible to take T17 transition just after T20, unlocking and moved to READY state.

## Default (ghost) Transition Testing of the Account Class

The default transitions for each state are given below:

### Default Transition for IDLE State

| Transition Operation | Covered by Test Case# |
| --- | --- |
| open(z, y, x) | TestCase#6 |
| logout() | TestCase#6 |
| pin(x) | TestCase#6 |
| deposit(d) | TestCase#6 |
| withdraw(w) | TestCase#6 |
| balance() | TestCase#6 |
| lock(x) | TestCase#6 |
| unlock(x) | TestCase#6 |

### Default Transition for CHECK PIN State

| Transition Operation | Covered by Test Case# |
| --- | --- |
| **open(z, y, x)** | TestCase#7 |
| **login(x)** | TestCase#7 |
| **deposit(d)** | TestCase#7 |
| **withdraw(w)** | TestCase#7 |
| **balance()** | TestCase#7 |
| **lock(x)** | TestCase#7 |
| **unlock(x)** | TestCase#7 |

### Default Transition for READY State

| Transition Operation | Covered by Test Case# |
| --- | --- |
| open(z, y, x) | TestCase#8 |
| login(x) | TestCase#8 |
| pin(x) | TestCase#8 |
| withdraw(w)[b-w<=0] | TestCase#8 |
| lock(x)[x==pn] | TestCase#8 |
| unlock(x) | TestCase#8 |

### Default Transition for OVERDRAWN State

| Transition Operation | Covered by Test Case# |
| --- | --- |
| open(z, y, x) | TestCase#9 |
| login(x) | TestCase#9 |
| pin(x) | TestCase#9 |
| withdraw(w) | TestCase#9 |
| lock(x)[x==pn] | TestCase#9 |
| unlock(x) | TestCase#9 |

### Default Transition for LOCKED State

| Transition Operation | Covered by Test Case# |
| --- | --- |
| open(z, y, x) | TestCase#10 |
| login(x) | TestCase#10 |
| logout() | TestCase#10 |
| pin(x) | TestCase#10 |
| deposit(d) | TestCase#10 |
| withdraw(w) | TestCase#10 |
| lock(x) | TestCase#10 |
| Unlock(x)[x!=k] | TestCase#10 |

### Non-executable Default Transition

There are no non-executable default transition.

## Multiple-condition Testing of the Account Class

For multi-condition testing truth tables for each method are listed below with test case numbers, which covers them.

### Multiple-condition Testing for *open(z, y, x)*

#### Truth Table 1 for *open(z, y, x)*

| x>0 | x4 == -1 | y>0 | z>0 | Covered by Test Case# |
| --- | --- | --- | --- | --- |
| T | T | T | T | TestCase#1 |
| T | T | T | F | TestCase#11 |
| T | T | F | T | TestCase#11 |
| T | T | F | F | TestCase#11 |
| T | F | T | T | TestCase#6 |
| T | F | T | F | TestCase#7 |
| T | F | F | T | TestCase#8 |
| T | F | F | F | TestCase#9 |
| F | T | T | T | TestCase#11 |
| F | T | T | F | TestCase#11 |
| F | T | F | T | TestCase#11 |
| F | T | F | F | TestCase#11 |
| F | F | T | T | TestCase#10 |
| F | F | T | F | TestCase#11 |
| F | F | F | T | TestCase#11 |
| F | F | F | F | TestCase#11 |

### Multiple-condition Testing for *pin(x)*

#### Truth Table 1 for *pin(x)*

| x4!=1 | Covered by Test Case# |
| --- | --- |
| T | TestCase#6 |
| F | TestCase#1 |

#### Truth Table 2 for *pin(x)*

| x == x3 | Covered by Test Case# |
| --- | --- |
| T | TestCase#1 |
| F | TestCase#1 |

#### Truth Table 3 for *pin(x)*

| x9 >= x0 | Covered by Test Case# |
| --- | --- |
| T | TestCase#1 |
| F | TestCase#1 |

### Multiple-condition Testing for *logout()*

#### Truth Table 1 for *logout()*

| x4 == 0 | x2 == 1 | Covered by Test Case# |
| --- | --- | --- |
| T | T | Impossible |
| T | F | TestCase#6 |
| F | T | TestCase#10 |
| F | F | TestCase#1 |

### Multiple-condition Testing for *login(x)*

#### Truth Table 1 for *login(x)*

| x4 != 0 | Test# |
| --- | --- |
| T | TestCase#7 |
| F | TestCase#1 |

#### Truth Table 2 for *login(x)*

| x5 == x | Covered by Test Case# |
| --- | --- |
| T | TestCase#1 |
| F | TestCase#1 |

### Multiple-condition Testing for *balance()*

#### Truth Table 1 for *balance()*

| x4 != 2 | Covered by Test Case# |
| --- | --- |
| T | TestCase#6 |
| F | TestCase#1 |

### Multiple-condition Testing for *lock(x)*

#### Truth Table 1 for *lock(x)*

| x4 != 2 | Covered by Test Case# |
| --- | --- |
| T | TestCase#6 |
| F | TestCase#1 |

#### Truth Table 2 for *lock(x)*

| x == x3 | Covered by Test Case# |
| --- | --- |
| T | TestCase#8 |
| F | TestCase#1 |

#### Truth Table 3 for *lock(x)*

| x2 == 0 | Covered by Test Case# |
| --- | --- |
| T | TestCase#1 |
| F | TestCase#10 |

### Multiple-condition Testing for *unlock(x)*

#### Truth Table 1 for *unlock(x)*

| x4 != 2 | Covered by Test Case# |
| --- | --- |
| T | TestCase#6 |
| F | TestCase#1 |

#### Truth Table 2 for *unlock(x)*

| x2 == 1 | x == x8 | Covered by Test Case# |
| --- | --- | --- |
| T | T | TestCase#1 |
| T | F | TestCase#10 |
| F | T | TestCase#7 |
| F | F | TestCase#8 |

### Multiple-condition Testing for *deposit(d)*

#### Truth Table 1 for *deposit(d)*

| x4 != 2 | Covered by Test Case# |
| --- | --- |
| T | TestCase#6 |
| F | TestCase#1 |

#### Truth Table 2 for *deposit(d)*

| x2 == 1 | Covered by Test Case# |
| --- | --- |
| T | TestCase#10 |
| F | TestCase#1 |

#### Truth Table 3 for *deposit(d)*

| x1 + d < x7 | d > 0 | Covered by Test Case# |
| --- | --- | --- |
| T | T | TestCase#1 |
| T | F | TestCase#11 |
| F | T | TestCase#1 |
| F | F | TestCase#11 |

#### Truth Table 4 for *deposit(d)*

| d > 0 | Covered by Test Case# |
| --- | --- |
| T | TestCase#1 |
| F | TestCase#11 |

### Multiple-condition Testing for *withdraw(w))*

#### Truth Table 1 for *withdraw(w)*

| x4 != 2 | Covered by Test Case# |
| --- | --- |
| T | TestCase#6 |
| F | TestCase#1 |

#### Truth Table 2 for *withdraw(w)*

| x2 == 1 | Covered by Test Case# |
| --- | --- |
| T | TestCase#10 |
| F | TestCase#1 |

#### Truth Table 3 for *withdraw(w)*

| x1 > w | w > 0 | Covered by Test Case# |
| --- | --- | --- |
| T | T | TestCase#1 |
| T | F | TestCase#8 |
| F | T | TestCase#11 |
| F | F | TestCase#11 |

#### Truth Table 4 for *withdraw(w)*

| x1 < x7 | Covered by Test Case# |
| --- | --- |
| T | TestCase#9 |
| F | TestCase#1 |

#### Truth Table 5 for *withdraw(w)*

| x1 < x7 | Covered by Test Case# |
| --- | --- |
| T | TestCase#1 |
| F | TestCase#1 |

### Non-executable Multi-condition

In *logout()* the combination of *(x4 == 0 ) 🡪 True* and *(x2 == 1) 🡪 False* is impossible for execution because *x4 = 0* when the system is in *IDLE* state and *x2 = 1* when the system is in *LOCKED* state. The system cannot be present in two states at the same time. The truth table for this can be found in section Truth Table 1 for *logout()*.

# Test Suit

The test suit is created and stored in TS.txt. The detailed instruction to execute the test cases are given later in this report in the section Instruction to Execute Test Cases. The test cases are given as below:

Test#1: open 100 123 200 login 150 login 140 login 100 pin 1 pin 2 pin 3 login 150 login 100 logout login 140 login 100 pin 123 balance balance deposit 50 deposit 50 lock 321 balance balance unlock 321 lock 321 unlock 321 balance withdraw 10 withdraw 10 balance withdraw 100 lock 321 balance unlock 321 balance balance deposit 20 balance lock 321 unlock 321 balance deposit 100 balance logout login 140

Test#2: open 100 123 190 login 100 pin 123 balance logout login 135 login 100 pin 123 deposit 10 deposit 10 lock 321 unlock 321 deposit 10 deposit 100 withdraw 100 balance logout login 100 pin 1 logout login 100 pin 2 pin 2 pin 2 login 100 pin 2 pin 123 lock 321 unlock 321 lock 321 unlock 321 deposit 10 logout

Test#3: open 100 123 190 login 100 pin 123 deposit 100 logout login 100 pin 2 pin 123 withdraw 100 deposit 10 lock 321 unlock 321 deposit 100 deposit 10 balance lock 321 unlock 321 withdraw 100 deposit 100 withdraw 10 deposit 10 withdraw 10 lock 321 unlock 321 deposit 10 withdraw 100 logout login 100 pin 123 logout

Test#4: open 100 123 190 login 100 pin 123 logout

Test#5: open 100 123 300 login 100 pin 123 lock 321 unlock 321 withdraw 10 withdraw 100 deposit 100 lock 321 unlock 321 logout login 100 pin 123 deposit 10 logout login 100 pin 123 withdraw 10 logout login 100 pin 123 logout

Test#6: open 100 123 200 open 100 123 200 logout pin 123 deposit 100 withdraw 100 balance lock 321 unlock 321

Test#7: open 100 123 200 login 100 open -100 123 200 login 100 deposit 100 withdraw 100 balance lock 321 unlock 12 pin 123 lock 321 unlock 321 unlock 321

Test#8: open 100 123 200 login 100 pin 123 open 100 -123 200 login 100 pin 123 withdraw 0 lock 123 unlock 123

Test#9: open 100 123 190 login 100 pin 123 open -100 -123 200 login 100 pin 123 withdraw 100 lock 123 unlock 321

Test#10: open 100 123 190 login 100 pin 123 lock 321 open 100 123 -200 login 100 logout pin 123 deposit 100 withdraw 100 lock 321 unlock 12

Test#11: open -100 123 200 open 100 -123 200 open -100 -123 200 open 100 123 -200 open -100 123 -200 open 100 -123 -200 open -100 -123 -200 open 100 123 200 open -100 123 -200 open 100 -123 -200 open -100 -123 -200 login 100 pin 123 deposit 0 withdraw 190 deposit 0 withdraw 50 withdraw -10

$$

## Test Suite Verification

The test suite provided in *“TS.txt”* file is verified as syntax and error free. The output of the test suite checker on this file is given below:

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Test Suite Checker

Press any key to continue

Test#1:

open(100,123,200) method

login(150) method

login(140) method

login(100) method

pin(1) method

pin(2) method

pin(3) method

login(150) method

login(100) method

logout() method

login(140) method

login(100) method

pin(123) method

balance() method

balance() method

deposit(50) method

deposit(50) method

lock(321) method

balance() method

balance() method

unlock(321) method

lock(321) method

unlock(321) method

balance() method

withdraw(10) method

withdraw(10) method

balance() method

withdraw(100) method

lock(321) method

balance() method

unlock(321) method

balance() method

balance() method

deposit(20) method

balance() method

lock(321) method

unlock(321) method

balance() method

deposit(100) method

balance() method

logout() method

login(140) method

Test#2:

open(100,123,190) method

login(100) method

pin(123) method

balance() method

logout() method

login(135) method

login(100) method

pin(123) method

deposit(10) method

deposit(10) method

lock(321) method

unlock(321) method

deposit(10) method

deposit(100) method

withdraw(100) method

balance() method

logout() method

login(100) method

pin(1) method

logout() method

login(100) method

pin(2) method

pin(2) method

pin(2) method

login(100) method

pin(2) method

pin(123) method

lock(321) method

unlock(321) method

lock(321) method

unlock(321) method

deposit(10) method

logout() method

Test#3:

open(100,123,190) method

login(100) method

pin(123) method

deposit(100) method

logout() method

login(100) method

pin(2) method

pin(123) method

withdraw(100) method

deposit(10) method

lock(321) method

unlock(321) method

deposit(100) method

deposit(10) method

balance() method

lock(321) method

unlock(321) method

withdraw(100) method

deposit(100) method

withdraw(10) method

deposit(10) method

withdraw(10) method

lock(321) method

unlock(321) method

deposit(10) method

withdraw(100) method

logout() method

login(100) method

pin(123) method

logout() method

Test#4:

open(100,123,190) method

login(100) method

pin(123) method

logout() method

Test#5:

open(100,123,300) method

login(100) method

pin(123) method

lock(321) method

unlock(321) method

withdraw(10) method

withdraw(100) method

deposit(100) method

lock(321) method

unlock(321) method

logout() method

login(100) method

pin(123) method

deposit(10) method

logout() method

login(100) method

pin(123) method

withdraw(10) method

logout() method

login(100) method

pin(123) method

logout() method

Test#6:

open(100,123,200) method

open(100,123,200) method

logout() method

pin(123) method

deposit(100) method

withdraw(100) method

balance() method

lock(321) method

unlock(321) method

Test#7:

open(100,123,200) method

login(100) method

open(-100,123,200) method

login(100) method

deposit(100) method

withdraw(100) method

balance() method

lock(321) method

unlock(12) method

pin(123) method

lock(321) method

unlock(321) method

unlock(321) method

Test#8:

open(100,123,200) method

login(100) method

pin(123) method

open(100,-123,200) method

login(100) method

pin(123) method

withdraw(0) method

lock(123) method

unlock(123) method

Test#9:

open(100,123,190) method

login(100) method

pin(123) method

open(-100,-123,200) method

login(100) method

pin(123) method

withdraw(100) method

lock(123) method

unlock(321) method

Test#10:

open(100,123,190) method

login(100) method

pin(123) method

lock(321) method

open(100,123,-200) method

login(100) method

logout() method

pin(123) method

deposit(100) method

withdraw(100) method

lock(321) method

unlock(12) method

Test#11:

open(-100,123,200) method

open(100,-123,200) method

open(-100,-123,200) method

open(100,123,-200) method

open(-100,123,-200) method

open(100,-123,-200) method

open(-100,-123,-200) method

open(100,123,200) method

open(-100,123,-200) method

open(100,-123,-200) method

open(-100,-123,-200) method

login(100) method

pin(123) method

deposit(0) method

withdraw(190) method

deposit(0) method

withdraw(50) method

withdraw(-10) method

The test suite has been checked.

No errors have been detected.

Press any key to continue

## Source Code

Source code of account class has not been changed at all. Although, some testing oriented methods and comments added for better readability.

### TestDriver.java

Graphical user interface, text, application

Description automatically generated

A picture containing text

Description automatically generatedA picture containing table

Description automatically generatedTable

Description automatically generated with low confidenceText

Description automatically generatedText

Description automatically generatedText

Description automatically generated with low confidenceA picture containing table

Description automatically generatedTable

Description automatically generated with medium confidenceText, letter

Description automatically generated

### account.java

Text

Description automatically generated with medium confidence

Text

Description automatically generatedText

Description automatically generated with medium confidenceText

Description automatically generated with medium confidenceA picture containing chart

Description automatically generated

# Test Case Execution, Test Results and Correctness

## TestCase#1

### Test Case

**From TS.txt**

Test#1: open 100 123 200 login 150 login 140 login 100 pin 1 pin 2 pin 3 login 150 login 100 logout login 140 login 100 pin 123 balance balance deposit 50 deposit 50 lock 321 balance balance unlock 321 lock 321 unlock 321 balance withdraw 10 withdraw 10 balance withdraw 100 lock 321 balance unlock 321 balance balance deposit 20 balance lock 321 unlock 321 balance deposit 100 balance logout login 140

**As method call**

Test#1: open(100,123,200), login(150), login(140), login(100), pin(1), pin(2), pin(3), login(150), login(100), logout(), login(140), login(100), pin(123), balance(), balance(), deposit(50), deposit(50), lock(321), balance(), balance(), unlock(321), lock(321), unlock(321), balance(), withdraw(10), withdraw(10), balance(), withdraw(100), lock(321), balance(), unlock(321), balance(), balance(), deposit(20), balance(), lock(321), unlock(321), balance(), deposit(100), balance(), logout(), login(140)

### Transition Traversed

T1, T7, T7, T2, T3, T3, T6, T7, T2, T5, T7, T2, T18, T13, T13, T12, T12, T4, T15, T15, T17, T4, T17, T13, T11, T11, T13, T14, T20, T15, T19, T22, T22, T21, T22, T20, T19, T22, T16, T13, T10, T7

### Output of *Account* Class

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Sukanta Sharma

A2042623

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

200

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

150

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

140

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

1

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

2

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

3

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

150

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

140

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 200 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 200 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

50

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

50

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 300 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 300 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 300 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 280 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 160 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 160 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 160 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

20

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 160 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 160 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 260 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

140

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

q

Your choice is : q

Quitting Account Driver...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

THANK YOU!!!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Correctness

| Function Called | Transition | Expected Result | | | Produced Result | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | State After Transition | Balance | No. of Unsuccessful Attempt |
| OPEN 100 123 200 | T1 | IDLE | 200 | 0 | IDLE | 200 | 0 |
| LOGIN 150 | T7 | IDLE | 200 | 0 | IDLE | 200 | 0 |
| LOGIN 140 | T7 | IDLE | 200 | 0 | IDLE | 200 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 200 | 0 | CHECK PIN | 200 | 0 |
| PIN 1 | T3 | CHECK PIN | 200 | 1 | CHECK PIN | 200 | 1 |
| PIN 2 | T3 | CHECK PIN | 200 | 2 | CHECK PIN | 200 | 2 |
| PIN 3 | **T6** | **IDLE** | **200** | **2** | **IDLE** | **200** | **3** |
| LOGIN 150 | T7 | IDLE | 200 | 2 | IDLE | 200 | 3 |
| LOGIN 100 | T2 | CHECK PIN | 200 | 0 | CHECK PIN | 200 | 0 |
| LOGOUT | T5 | IDLE | 200 | 0 | IDLE | 200 | 0 |
| LOGIN 140 | T7 | IDLE | 200 | 0 | IDLE | 200 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 200 | 0 | CHECK PIN | 200 | 0 |
| PIN 123 | T18 | READY | 200 | 0 | READY | 200 | 0 |
| BALANCE | T13 | READY | 200 | 0 | READY | 200 | 0 |
| BALANCE | T13 | READY | 200 | 0 | READY | 200 | 0 |
| DEPOSIT 50 | T12 | READY | 250 | 0 | READY | 250 | 0 |
| DEPOSIT 50 | T12 | READY | 300 | 0 | READY | 300 | 0 |
| LOCK 321 | T4 | LOCKED | 300 | 0 | LOCKED | 300 | 0 |
| BALANCE | T15 | LOCKED | 300 | 0 | LOCKED | 300 | 0 |
| BALANCE | T15 | LOCKED | 300 | 0 | LOCKED | 300 | 0 |
| UNLOCK 321 | T17 | READY | 300 | 0 | READY | 300 | 0 |
| LOCK 321 | T4 | LOCKED | 300 | 0 | LOCKED | 300 | 0 |
| UNLOCK 321 | T17 | READY | 300 | 0 | READY | 300 | 0 |
| BALANCE | T13 | READY | 300 | 0 | READY | 300 | 0 |
| WITHDRAW 10 | T11 | READY | 290 | 0 | READY | 290 | 0 |
| WITHDRAW 10 | T11 | READY | 280 | 0 | READY | 280 | 0 |
| BALANCE | T13 | READY | 280 | 0 | READY | 280 | 0 |
| WITHDRAW 100 | T14 | OVERDRAWN | 160 | 0 | OVERDRAWN | 160 | 0 |
| LOCK 321 | T20 | LOCKED | 160 | 0 | LOCKED | 160 | 0 |
| BALANCE | T15 | LOCKED | 160 | 0 | LOCKED | 160 | 0 |
| UNLOCK 321 | T19 | OVERDRAWN | 160 | 0 | OVERDRAWN | 160 | 0 |
| BALANCE | T22 | OVERDRAWN | 160 | 0 | OVERDRAWN | 160 | 0 |
| BALANCE | T22 | OVERDRAWN | 160 | 0 | OVERDRAWN | 160 | 0 |
| DEPOSIT 20 | **T21** | **OVERDRAWN** | **170** | **0** | **OVERDRAWN** | **160** | **0** |
| BALANCE | T22 | OVERDRAWN | 170 | 0 | OVERDRAWN | 160 | 0 |
| LOCK 321 | T20 | LOCKED | 170 | 0 | LOCKED | 160 | 0 |
| UNLOCK 321 | T19 | OVERDRAWN | 170 | 0 | OVERDRAWN | 160 | 0 |
| BALANCE | T22 | OVERDRAWN | 170 | 0 | OVERDRAWN | 160 | 0 |
| DEPOSIT 100 | T16 | READY | 270 | 0 | READY | 260 | 0 |
| BALANCE | T13 | READY | 270 | 0 | READY | 260 | 0 |
| LOGOUT | T10 | IDLE | 270 | 0 | IDLE | 260 | 0 |
| LOGIN 140 | T7 | IDLE | 270 | 0 | IDLE | 260 | 0 |

As from the above table we can see that expected results are not matched with produced result. Hence the test case is **FAILED**. The contradicting operations are highlighted in RED color in the above table. This test case is also mentioned later in this report in the section List of Failed Test Cases

## TestCase#2

### Test Case

**From TS.txt**

Test#2: open 100 123 190 login 100 pin 123 balance logout login 135 login 100 pin 123 deposit 10 deposit 10 lock 321 unlock 321 deposit 10 deposit 100 withdraw 100 balance logout login 100 pin 1 logout login 100 pin 2 pin 2 pin 2 login 100 pin 2 pin 123 lock 321 unlock 321 lock 321 unlock 321 deposit 10 logout

**As method call**

Test#2: open(100,123,190), login(100), pin(123), balance(), logout(), login(135), login(100), pin(123), deposit(10), deposit(10), lock(321), unlock(321), deposit(10), deposit(100), withdraw(100), balance(), logout(), login(100), pin(1), logout(), login(100), pin(2), pin(2), pin(2), login(100), pin(2), pin(123), lock(321), unlock(321), lock(321), unlock(321), deposit(10), logout()

### Transition Traversed

T1, T2, T8, T22, T9, T7, T2, T8, T21, T21, T20, T19, T21, T16, T14, T22, T9, T2, T3, T5, T2, T3, T3, T6, T2, T3, T8, T20, T19, T20, T19, T21, T9

### Output of *Account* Class

CS 589; Fall 2021

PROJECT

Sukanta Sharma

A2042623

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

190

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 190 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

135

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 220 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

1

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

2

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

2

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

2

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

2

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

q

Your choice is : q

Quitting Account Driver...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

THANK YOU!!!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Correctness

| Function Called | Transition | Expected Result | | | Produced Result | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | State After Transition | Balance | No. of Unsuccessful Attempt |
| OPEN 100 123 190 | T1 | IDLE | 190 | 0 | IDLE | 190 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 190 | 0 | CHECK PIN | 190 | 0 |
| PIN 123 | T8 | OVERDRAWN | 190 | 0 | OVERDRAWN | 190 | 0 |
| BALANCE | T22 | OVERDRAWN | 190 | 0 | OVERDRAWN | 190 | 0 |
| LOGOUT | T9 | IDLE | 190 | 0 | IDLE | 190 | 0 |
| LOGIN 135 | T7 | IDLE | 190 | 0 | IDLE | 190 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 190 | 0 | CHECK PIN | 190 | 0 |
| PIN 123 | T8 | OVERDRAWN | 190 | 0 | OVERDRAWN | 190 | 0 |
| DEPOSIT 10 | **T21** | **OVERDRAWN** | **190** | **0** | **READY** | **200** | **0** |
| DEPOSIT 10 | **T21** | **OVERDRAWN** | **190** | **0** | **READY** | **210** | **0** |
| LOCK 321 | T20 | LOCKED | 190 | 0 | LOCKED | 210 | 0 |
| UNLOCK 321 | T19 | OVERDRAWN | 190 | 0 | READY | 210 | 0 |
| DEPOSIT 10 | **T21** | **OVERDRAWN** | **190** | **0** | **READY** | **220** | **0** |
| DEPOSIT 100 | T16 | READY | 290 | 0 | READY | 320 | 0 |
| WITHDRAW 100 | T14 | OVERDRAWN | 170 | 0 | READY | 220 | 0 |
| BALANCE | T22 | OVERDRAWN | 170 | 0 | READY | 220 | 0 |
| LOGOUT | T9 | IDLE | 170 | 0 | IDLE | 220 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 170 | 0 | CHECK PIN | 220 | 0 |
| PIN 1 | T3 | CHECK PIN | 170 | 0 | CHECK PIN | 220 | 1 |
| LOGOUT | T5 | IDLE | 170 | 0 | IDLE | 220 | 1 |
| LOGIN 100 | T2 | CHECK PIN | 170 | 0 | CHECK PIN | 220 | 0 |
| PIN 2 | T3 | CHECK PIN | 170 | 1 | CHECK PIN | 220 | 1 |
| PIN 2 | T3 | CHECK PIN | 170 | 2 | CHECK PIN | 220 | 2 |
| PIN 2 | **T6** | **IDLE** | **170** | **2** | **IDLE** | **220** | **3** |
| LOGIN 100 | T2 | CHECK PIN | 170 | 0 | CHECK PIN | 220 | 0 |
| PIN 2 | T3 | CHECK PIN | 170 | 1 | CHECK PIN | 220 | 1 |
| PIN 123 | T8 | OVERDRAWN | 170 | 1 | READY | 220 | 1 |
| LOCK 321 | T20 | LOCKED | 170 | 1 | LOCKED | 220 | 1 |
| UNLOCK 321 | T19 | OVERDRAWN | 170 | 1 | READY | 220 | 1 |
| LOCK 321 | T20 | LOCKED | 170 | 1 | LOCKED | 220 | 1 |
| UNLOCK 321 | T19 | OVERDRAWN | 170 | 1 | READY | 220 | 1 |
| DEPOSIT 10 | **T21** | **OVERDRAWN** | **170** | **1** | **READY** | **230** | **1** |
| LOGOUT | T9 | IDLE | 170 | 1 | IDLE | 230 | 1 |

As from the above table we can see that expected results are not matched with produced result. Hence the test case is **FAILED**. The contradicting operations are highlighted in RED color in the above table. This test case is also mentioned later in this report in the section List of Failed Test Cases

## TestCase#3

### Test Case

**From TS.txt**

Test#3: open 100 123 190 login 100 pin 123 deposit 100 logout login 100 pin 2 pin 123 withdraw 100 deposit 10 lock 321 unlock 321 deposit 100 deposit 10 balance lock 321 unlock 321 withdraw 100 deposit 100 withdraw 10 deposit 10 withdraw 10 lock 321 unlock 321 deposit 10 withdraw 100 logout login 100 pin 123 logout

**As method call**

Test#3: open(100,123,190), login(100), pin(123), deposit(100), logout(), login(100), pin(2), pin(123), withdraw(100), deposit(10), lock(321), unlock(321), deposit(100), deposit(10), balance(), lock(321), unlock(321), withdraw(100), deposit(100), withdraw(10), deposit(10), withdraw(10), lock(321), unlock(321), deposit(10), withdraw(100), logout(), login(100), pin(123), logout()

### Transition Traversed

T1, T2, T8, T16, T10, T2, T3, T18, T14, T21, T20, T19, T16, T12, T13, T4, T17, T14, T16, T11, T12, T11, T4, T17, T12, T14, T9, T2, T8, T9

### Output of *Account* Class

CS 589; Fall 2021

PROJECT

Sukanta Sharma

A2042623

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

190

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

2

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = 270 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

10

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

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a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

q

Your choice is : q

Quitting Account Driver...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

THANK YOU!!!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Correctness

| Function Called | Transition | Expected Result | | | Produced Result | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | State After Transition | Balance | No. of Unsuccessful Attempt |
| OPEN 100 123 190 | T1 | IDLE | 190 | 0 | IDLE | 190 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 190 | 0 | CHECK PIN | 190 | 0 |
| PIN 123 | T8 | OVERDRAWN | 190 | 0 | OVERDRAWN | 190 | 0 |
| DEPOSIT 100 | T16 | READY | 290 | 0 | READY | 290 | 0 |
| LOGOUT | T10 | IDLE | 290 | 0 | IDLE | 290 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 290 | 0 | CHECK PIN | 290 | 0 |
| PIN 2 | T3 | CHECK PIN | 290 | 1 | CHECK PIN | 290 | 1 |
| PIN 123 | T18 | READY | 290 | 1 | READY | 290 | 1 |
| WITHDRAW 100 | T14 | OVERDRAWN | 170 | 1 | OVERDRAWN | 170 | 1 |
| DEPOSIT 10 | **T21** | **OVERDRAWN** | **170** | **1** | **OVERDRAWN** | **160** | **1** |
| LOCK 321 | T20 | LOCKED | 170 | 1 | LOCKED | 160 | 1 |
| UNLOCK 321 | T19 | OVERDRAWN | 170 | 1 | OVERDRAWN | 160 | 1 |
| DEPOSIT 100 | T16 | READY | 270 | 1 | READY | 260 | 1 |
| DEPOSIT 10 | T12 | READY | 280 | 1 | READY | 270 | 1 |
| BALANCE | T13 | READY | 280 | 1 | READY | 270 | 1 |
| LOCK 321 | T4 | LOCKED | 280 | 1 | LOCKED | 270 | 1 |
| UNLOCK 321 | T17 | READY | 280 | 1 | READY | 270 | 1 |
| WITHDRAW 100 | T14 | OVERDRAWN | 160 | 1 | OVERDRAWN | 150 | 1 |
| DEPOSIT 100 | T16 | READY | 260 | 1 | READY | 250 | 1 |
| WITHDRAW 10 | T11 | READY | 250 | 1 | READY | 240 | 1 |
| DEPOSIT 10 | T12 | READY | 260 | 1 | READY | 250 | 1 |
| WITHDRAW 10 | T11 | READY | 250 | 1 | READY | 240 | 1 |
| LOCK 321 | T4 | LOCKED | 250 | 1 | LOCKED | 240 | 1 |
| UNLOCK 321 | T17 | READY | 250 | 1 | READY | 240 | 1 |
| DEPOSIT 10 | T12 | READY | 260 | 1 | READY | 250 | 1 |
| WITHDRAW 100 | T14 | OVERDRAWN | 140 | 1 | OVERDRAWN | 130 | 1 |
| LOGOUT | T9 | IDLE | 140 | 1 | IDLE | 130 | 1 |
| LOGIN 100 | T2 | CHECK PIN | 140 | 0 | CHECK PIN | 130 | 0 |
| PIN 123 | T8 | OVERDRAWN | 140 | 0 | OVERDRAWN | 130 | 0 |
| LOGOUT | T9 | IDLE | 140 | 0 | IDLE | 130 | 0 |

As from the above table we can see that expected results are not matched with produced result. Hence the test case is **FAILED**. The contradicting operations are highlighted in RED color in the above table. This test case is also mentioned later in this report in the section List of Failed Test Cases

## TestCase#4

### Test Case

**From TS.txt**

Test#4: open 100 123 190 login 100 pin 123 logout

**As method call**

Test#4: open(100,123,190), login(100), pin(123), logout()

### Transition Traversed

T1, T2, T8, T9

### Output of *Account* Class

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

190

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

q

Your choice is : q

Quitting Account Driver...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

THANK YOU!!!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Correctness

| Function Called | Expected Result | | | Produced Result | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | | State After Transition | Balance | No. of Unsuccessful Attempt |
| OPEN 100 123 190 | IDLE | 190 | 0 | | IDLE | 190 | 0 |
| LOGIN 100 | CHECK PIN | 190 | 0 | | CHECK PIN | 190 | 0 |
| PIN 123 | OVERDRAWN | 190 | 0 | | OVERDRAWN | 190 | 0 |
| LOGOUT | IDLE | 190 | 0 | | IDLE | 190 | 0 |

As from the above table we can see that expected results are matched with produced result. Hence the test case is **PASSED**.

## TestCase#5

### Test Case

**From TS.txt**

Test#5: open 100 123 300 login 100 pin 123 lock 321 unlock 321 withdraw 10 withdraw 100 deposit 100 lock 321 unlock 321 logout login 100 pin 123 deposit 10 logout login 100 pin 123 withdraw 10 logout login 100 pin 123 logout

**As method call**

Test#5: open(100,123,300), login(100), pin(123), lock(321), unlock(321), withdraw(10), withdraw(100), deposit(100), lock(321), unlock(321), logout(), login(100), pin(123), deposit(10), logout(), login(100), pin(123), withdraw(10), logout(), login(100), pin(123), logout()

### Transition Traversed

T1, T2, T18, T4, T17, T11, T14, T16, T4, T17, T10, T2, T18, T12, T10, T2, T18, T11, T10, T2, T18, T10

### Output of *Account* Class

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### Correctness

| Function Called | Expected Result | | | Produced Result | | |
| --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | State After Transition | Balance | No. of Unsuccessful Attempt |
| OPEN 100 123 300 | IDLE | 300 | 0 | IDLE | 300 | 0 |
| LOGIN 100 | CHECK PIN | 300 | 0 | CHECK PIN | 300 | 0 |
| PIN 123 | READY | 300 | 0 | READY | 300 | 0 |
| LOCK 321 | LOCKED | 300 | 0 | LOCKED | 300 | 0 |
| UNLOCK 321 | READY | 300 | 0 | READY | 300 | 0 |
| WITHDRAW 10 | READY | 290 | 0 | READY | 290 | 0 |
| WITHDRAW 100 | OVERDRAWN | 170 | 0 | OVERDRAWN | 170 | 0 |
| DEPOSIT 100 | READY | 270 | 0 | READY | 270 | 0 |
| LOCK 321 | LOCKED | 270 | 0 | LOCKED | 270 | 0 |
| UNLOCK 321 | READY | 270 | 0 | READY | 270 | 0 |
| LOGOUT | IDLE | 270 | 0 | IDLE | 270 | 0 |
| LOGIN 100 | CHECK PIN | 270 | 0 | CHECK PIN | 270 | 0 |
| PIN 123 | READY | 270 | 0 | READY | 270 | 0 |
| DEPOSIT 10 | READY | 280 | 0 | READY | 280 | 0 |
| LOGOUT | IDLE | 280 | 0 | IDLE | 280 | 0 |
| LOGIN 100 | CHECK PIN | 280 | 0 | CHECK PIN | 280 | 0 |
| PIN 123 | READY | 280 | 0 | READY | 280 | 0 |
| WITHDRAW 10 | READY | 270 | 0 | READY | 270 | 0 |
| LOGOUT | IDLE | 270 | 0 | IDLE | 270 | 0 |
| LOGIN 100 | CHECK PIN | 270 | 0 | CHECK PIN | 270 | 0 |
| PIN 123 | READY | 270 | 0 | READY | 270 | 0 |
| LOGOUT | IDLE | 270 | 0 | IDLE | 270 | 0 |

As from the above table we can see that expected results are matched with produced result. Hence the test case is **PASSED**.

## TestCase#6

### Test Case

**From TS.txt**

Test#6: open 100 123 200 open 100 123 200 logout pin 123 deposit 100 withdraw 100 balance lock 321 unlock 321

**As method call**

Test#6: open(100,123,200), open(100,123,200), logout(), pin(123), deposit(100), withdraw(100), balance(), lock(321), unlock(321)

### Transition Traversed

T1

### Output of *Account* Class

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

200

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

q

Your choice is : q

Quitting Account Driver...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

THANK YOU!!!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Correctness

| Function Called | Expected Result | | | | Produced Result | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | Return Value | State After Transition | Balance | No. of Unsuccessful Attempt | Return Value |
| OPEN 100 123 200 | IDLE | 200 | 0 | 0 | IDLE | 200 | 0 | 0 |
| OPEN 100 123 200 | **IDLE** | **200** | **0** | **-1** | **IDLE** | **200** | **0** | **-1** |
| LOGOUT | **IDLE** | **200** | **0** | **-1** | **IDLE** | **200** | **0** | **-1** |
| PIN 123 | **IDLE** | **200** | **0** | **-1** | **IDLE** | **200** | **0** | **-1** |
| DEPOSIT 100 | **IDLE** | **200** | **0** | **-1** | **IDLE** | **200** | **0** | **-1** |
| WITHDRAW 100 | **IDLE** | **200** | **0** | **-1** | **IDLE** | **200** | **0** | **-1** |
| BALANCE | **IDLE** | **200** | **0** | **-1** | **IDLE** | **200** | **0** | **-1** |
| LOCK 321 | **IDLE** | **200** | **0** | **-1** | **IDLE** | **200** | **0** | **-1** |
| UNLOCK 321 | **IDLE** | **200** | **0** | **-1** | **IDLE** | **200** | **0** | **-1** |

As from the above table we can see that expected results are matched with produced result. Hence the test case is **PASSED**.

## TestCase#7

### Test Case

**From TS.txt**

Test#7: open 100 123 200 login 100 open -100 123 200 login 100 deposit 100 withdraw 100 balance lock 321 unlock 12 pin 123 lock 321 unlock 321 unlock 321

**As method call**

Test#7: open(100,123,200), login(100), open(-100,123,200), login(100), deposit(100), withdraw(100), balance(), lock(321), unlock(12), pin(123), lock(321), unlock(321), unlock(321

### Transition Traversed

T1, T2, T18, T4, T17

### Output of *Account* Class

CS 589; Fall 2021

PROJECT

Sukanta Sharma

A2042623

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

200

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

-100

Enter PIN:

123

Enter initial balance:

200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

3

Your choice is : 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: BALANCE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: Balance = -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

12

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

Q

Your choice is : q

Quitting Account Driver...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

THANK YOU!!!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Correctness

| Function Called | Expected Result | | | | Produced Result | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | Return Value | State After Transition | Balance | No. of Unsuccessful Attempt | Return Value |
| OPEN 100 123 200 | IDLE | 200 | 0 | 0 | IDLE | 200 | 0 | 0 |
| LOGIN 100 | CHECK PIN | 200 | 0 | 0 | CHECK PIN | 200 | 0 | 0 |
| OPEN -100 123 200 | **CHECK PIN** | **200** | **0** | **-1** | **CHECK PIN** | **200** | **0** | **-1** |
| LOGIN 100 | **CHECK PIN** | **200** | **0** | **-1** | **CHECK PIN** | **200** | **0** | **-1** |
| DEPOSIT 100 | **CHECK PIN** | **200** | **0** | **-1** | **CHECK PIN** | **200** | **0** | **-1** |
| WITHDRAW 100 | **CHECK PIN** | **200** | **0** | **-1** | **CHECK PIN** | **200** | **0** | **-1** |
| BALANCE | **CHECK PIN** | **200** | **0** | **-1** | **CHECK PIN** | **200** | **0** | **-1** |
| LOCK 321 | **CHECK PIN** | **200** | **0** | **-1** | **CHECK PIN** | **200** | **0** | **-1** |
| UNLOCK 12 | **CHECK PIN** | **200** | **0** | **-1** | **CHECK PIN** | **200** | **0** | **-1** |
| PIN 123 | READY | 200 | 0 | 0 | READY | 200 | 0 | 0 |
| LOCK 321 | LOCKED | 200 | 0 | 0 | LOCKED | 200 | 0 | 0 |
| UNLOCK 321 | READY | 200 | 0 | 0 | READY | 200 | 0 | 0 |
| UNLOCK 321 | READY | 200 | 0 | -1 | READY | 200 | 0 | -1 |

As from the above table we can see that expected results are matched with produced result. Hence the test case is **PASSED**.

## TestCase#8

### Test Case

**From TS.txt**

Test#8: open 100 123 200 login 100 pin 123 open 100 -123 200 login 100 pin 123 withdraw 0 lock 123 unlock 123

**As method call**

Test#8: open(100,123,200), login(100), pin(123), open(100,-123,200), login(100), pin(123), withdraw(0), lock(123), unlock(123)

### Transition Traversed

T1, T2, T18

### Output of *Account* Class

CS 589; Fall 2021

PROJECT

Sukanta Sharma

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

200

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

-123

Enter initial balance:

200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

0

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

123

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

123

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

q

Your choice is : q

Quitting Account Driver...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

THANK YOU!!!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Correctness

| Function Called | Expected Result | | | | Produced Result | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | Return Value | State After Transition | Balance | No. of Unsuccessful Attempt | Return Value |
| OPEN 100 123 200 | IDLE | 200 | 0 | 0 | IDLE | 200 | 0 | 0 |
| LOGIN 100 | CHECK PIN | 200 | 0 | 0 | CHECK PIN | 200 | 0 | 0 |
| PIN 123 | READY | 200 | 0 | 0 | READY | 200 | 0 | 0 |
| OPEN 100 -123 200 | **READY** | **200** | **0** | **-1** | **READY** | **200** | **0** | **-1** |
| LOGIN 100 | **READY** | **200** | **0** | **-1** | **READY** | **200** | **0** | **-1** |
| PIN 123 | **READY** | **200** | **0** | **-1** | **READY** | **200** | **0** | **-1** |
| WITHDRAW 0 | **READY** | **200** | **0** | **-1** | **READY** | **200** | **0** | **-1** |
| LOCK 123 | **READY** | **200** | **0** | **-1** | **READY** | **200** | **0** | **-1** |
| UNLOCK 123 | **READY** | **200** | **0** | **-1** | **READY** | **200** | **0** | **-1** |

As from the above table we can see that expected results are matched with produced result. Hence the test case is **PASSED**.

## TestCase#9

### Test Case

**From TS.txt**

Test#9: open 100 123 190 login 100 pin 123 open -100 -123 200 login 100 pin 123 withdraw 100 lock 123 unlock 321

**As method call**

Test#9: open(100,123,190), login(100), pin(123), open(-100,-123,200), login(100), pin(123), withdraw(100), lock(123), unlock(321)

### Transition Traversed

T1, T2, T8

### Output of *Account* Class

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PROJECT

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

190

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

-100

Enter PIN:

-123

Enter initial balance:

200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

123

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

q

Your choice is : q

Quitting Account Driver...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

THANK YOU!!!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Correctness

| Function Called | Expected Result | | | | Produced Result | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | Return Value | State After Transition | Balance | No. of Unsuccessful Attempt | Return Value |
| OPEN 100 123 190 | IDLE | 190 | 0 | 0 | IDLE | 190 | 0 | 0 |
| LOGIN 100 | CHECK PIN | 190 | 0 | 0 | CHECK PIN | 190 | 0 | 0 |
| PIN 123 | OVERDRAWN | 190 | 0 | 0 | OVERDRAWN | 190 | 0 | 0 |
| OPEN -100 -123 200 | **OVERDRAWN** | **190** | **0** | **-1** | **OVERDRAWN** | **190** | **0** | **-1** |
| LOGIN 100 | **OVERDRAWN** | **190** | **0** | **-1** | **OVERDRAWN** | **190** | **0** | **-1** |
| PIN 123 | **OVERDRAWN** | **190** | **0** | **-1** | **OVERDRAWN** | **190** | **0** | **-1** |
| WITHDRAW 100 | **OVERDRAWN** | **190** | **0** | **-1** | **OVERDRAWN** | **190** | **0** | **-1** |
| LOCK 123 | **OVERDRAWN** | **190** | **0** | **-1** | **OVERDRAWN** | **190** | **0** | **-1** |
| UNLOCK 321 | **OVERDRAWN** | **190** | **0** | **-1** | **OVERDRAWN** | **190** | **0** | **-1** |

As from the above table we can see that expected results are matched with produced result. Hence the test case is **PASSED**.

## TestCase#10

### Test Case

**From TS.txt**

Test#10: open 100 123 190 login 100 pin 123 lock 321 open 100 123 -200 login 100 logout pin 123 deposit 100 withdraw 100 lock 321 unlock 12

**As method call**

Test#10: open(100,123,190), login(100), pin(123), lock(321), open(100,123,-200), login(100), logout(), pin(123), deposit(100), withdraw(100), lock(321), unlock(12)

### Transition Traversed

T1, T2, T8, T20

### Output of *Account* Class

CS 589; Fall 2021

PROJECT

Sukanta Sharma

A2042623

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

190

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

-200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

8

Your choice is : 8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGOUT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

100

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

4

Your choice is : 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

321

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

5

Your choice is : 5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: UNLOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Lock#:

12

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

q

Your choice is : q

Quitting Account Driver...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

THANK YOU!!!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Correctness

| Function Called | Expected Result | | | | Produced Result | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | Return Value | State After Transition | Balance | No. of Unsuccessful Attempt | Return Value |
| OPEN 100 123 190 | IDLE | 190 | 0 | 0 | IDLE | 190 | 0 | 0 |
| LOGIN 100 | CHECK PIN | 190 | 0 | 0 | CHECK PIN | 190 | 0 | 0 |
| PIN 123 | OVERDRAWN | 190 | 0 | 0 | OVERDRAWN | 190 | 0 | 0 |
| LOCK 321 | LOCKED | 190 | 0 | 0 | LOCKED | 190 | 0 | 0 |
| OPEN 100 123 -200 | **LOCKED** | **190** | **0** | **-1** | **LOCKED** | **190** | **0** | **-1** |
| LOGIN 100 | **LOCKED** | **190** | **0** | **-1** | **LOCKED** | **190** | **0** | **-1** |
| LOGOUT | **LOCKED** | **190** | **0** | **-1** | **LOCKED** | **190** | **0** | **-1** |
| PIN 123 | **LOCKED** | **190** | **0** | **-1** | **LOCKED** | **190** | **0** | **-1** |
| DEPOSIT 100 | **LOCKED** | **190** | **0** | **-1** | **LOCKED** | **190** | **0** | **-1** |
| WITHDRAW 100 | **LOCKED** | **190** | **0** | **-1** | **LOCKED** | **190** | **0** | **-1** |
| LOCK 321 | **LOCKED** | **190** | **0** | **-1** | **LOCKED** | **190** | **0** | **-1** |
| UNLOCK 12 | **LOCKED** | **190** | **0** | **-1** | **LOCKED** | **190** | **0** | **-1** |

As from the above table we can see that expected results are matched with produced result. Hence the test case is **PASSED**.

## TestCase#11

### Test Case

**From TS.txt**

Test#11: open -100 123 200 open 100 -123 200 open -100 -123 200 open 100 123 -200 open -100 123 -200 open 100 -123 -200 open -100 -123 -200 open 100 123 200 open -100 123 -200 open 100 -123 -200 open -100 -123 -200 login 100 pin 123 deposit 0 withdraw 190 deposit 0 withdraw 50 withdraw -10

**As method call**

Test#11: open(-100,123,200), open(100,-123,200), open(-100,-123,200), open(100,123,-200), open(-100,123,-200), open(100,-123,-200), open(-100,-123,-200), open(100,123,200), open(-100,123,-200), open(100,-123,-200), open(-100,-123,-200), login(100), pin(123), deposit(0), withdraw(190), deposit(0), withdraw(50), withdraw(-10)

### Transition Traversed

T1, T2, T18, T12, T14, T21

### Output of *Account* Class

CS 589; Fall 2021

PROJECT

Sukanta Sharma

A2042623

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

-100

Enter PIN:

123

Enter initial balance:

200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

-123

Enter initial balance:

200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

-100

Enter PIN:

-123

Enter initial balance:

200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

-200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

-100

Enter PIN:

123

Enter initial balance:

-200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

-123

Enter initial balance:

-200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

-100

Enter PIN:

-123

Enter initial balance:

-200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

123

Enter initial balance:

200

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

-100

Enter PIN:

123

Enter initial balance:

-200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

Enter PIN:

-123

Enter initial balance:

-200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

0

Your choice is : 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: OPEN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

-100

Enter PIN:

-123

Enter initial balance:

-200

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

6

Your choice is : 6

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: LOGIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Account#:

100

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

7

Your choice is : 7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: PIN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter PIN:

123

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

0

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

190

The value returned by the method is: 0 (SUCCESS)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

1

Your choice is : 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: DEPOSIT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Deposit Amount:

0

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

50

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

2

Your choice is : 2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: Account

Type: Class Method

Method: WITHDRAW

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enter Withdraw Amount:

-10

The value returned by the method is: -1 (FAILED)

Press Enter key to continue...

Driver for the Account

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0. OPEN

1. DEPOSIT

2. WITHDRAW

3. BALANCE

4. LOCK

5. UNLOCK

6. LOGIN

7. PIN

8. LOGOUT

Testing-Oriented Methods

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SHOW BALANCE

b. SHOW STATE

c. SHOW LOCKED STATUS

d. SHOW NUMBER OF UNSECCESSFUL LOGIN ATTEMPTS

q. Quit Account Driver

Enter your choice:

Q

Your choice is : q

Quitting Account Driver...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

THANK YOU!!!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Correctness

| Function Called | Expected Result | | | | Produced Result | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | Return Value | State After Transition | Balance | No. of Unsuccessful Attempt | Return Value |
| OPEN -100 123 200 | START | 0 | 0 | -1 | START | 0 | 0 | -1 |
| OPEN 100 -123 200 | START | 0 | 0 | -1 | START | 0 | 0 | -1 |
| OPEN -100 -123 200 | START | 0 | 0 | -1 | START | 0 | 0 | -1 |
| OPEN 100 123 -200 | START | 0 | 0 | -1 | START | 0 | 0 | -1 |
| OPEN -100 123 -200 | START | 0 | 0 | -1 | START | 0 | 0 | -1 |
| OPEN 100 -123 -200 | START | 0 | 0 | -1 | START | 0 | 0 | -1 |
| OPEN -100 -123 -200 | START | 0 | 0 | -1 | START | 0 | 0 | -1 |
| OPEN 100 123 200 | IDLE | 200 | 0 | 0 | IDLE | 200 | 0 | 0 |
| OPEN -100 123 -200 | IDLE | 200 | 0 | -1 | IDLE | 200 | 0 | -1 |
| OPEN 100 -123 -200 | IDLE | 200 | 0 | -1 | IDLE | 200 | 0 | -1 |
| OPEN -100 -123 -200 | IDLE | 200 | 0 | -1 | IDLE | 200 | 0 | -1 |
| LOGIN 100 | CHECK PIN | 200 | 0 | 0 | CHECK PIN | 200 | 0 | 0 |
| PIN 123 | READY | 200 | 0 | 0 | READY | 200 | 0 | 0 |
| DEPOSIT 0 | READY | 200 | 0 | -1 | READY | 200 | 0 | -1 |
| WITHDRAW 190 | OVERDRAWN | -10 | 0 | 0 | OVERDRAWN | -10 | 0 | 0 |
| DEPOSIT 0 | OVERDRAWN | -10 | 0 | -1 | OVERDRAWN | -10 | 0 | -1 |
| WITHDRAW 50 | OVERDRAWN | -10 | 0 | -1 | OVERDRAWN | -10 | 0 | -1 |
| WITHDRAW -10 | OVERDRAWN | -10 | 0 | -1 | OVERDRAWN | -10 | 0 | -1 |

As from the above table we can see that expected results are matched with produced result. Hence the test case is **PASSED**.

# List of Failed Test Cases

## TestCase#1

### Incorrect Produced Output and Expected correct output

| Function Called | Transition | Expected Result | | | Produced Result | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | State After Transition | Balance | No. of Unsuccessful Attempt |
| OPEN 100 123 200 | T1 | IDLE | 200 | 0 | IDLE | 200 | 0 |
| LOGIN 150 | T7 | IDLE | 200 | 0 | IDLE | 200 | 0 |
| LOGIN 140 | T7 | IDLE | 200 | 0 | IDLE | 200 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 200 | 0 | CHECK PIN | 200 | 0 |
| PIN 1 | T3 | CHECK PIN | 200 | 1 | CHECK PIN | 200 | 1 |
| PIN 2 | T3 | CHECK PIN | 200 | 2 | CHECK PIN | 200 | 2 |
| PIN 3 | **T6** | **IDLE** | **200** | **2** | **IDLE** | **200** | **3** |
| LOGIN 150 | T7 | IDLE | 200 | 2 | IDLE | 200 | 3 |
| LOGIN 100 | T2 | CHECK PIN | 200 | 0 | CHECK PIN | 200 | 0 |
| LOGOUT | T5 | IDLE | 200 | 0 | IDLE | 200 | 0 |
| LOGIN 140 | T7 | IDLE | 200 | 0 | IDLE | 200 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 200 | 0 | CHECK PIN | 200 | 0 |
| PIN 123 | T18 | READY | 200 | 0 | READY | 200 | 0 |
| BALANCE | T13 | READY | 200 | 0 | READY | 200 | 0 |
| BALANCE | T13 | READY | 200 | 0 | READY | 200 | 0 |
| DEPOSIT 50 | T12 | READY | 250 | 0 | READY | 250 | 0 |
| DEPOSIT 50 | T12 | READY | 300 | 0 | READY | 300 | 0 |
| LOCK 321 | T4 | LOCKED | 300 | 0 | LOCKED | 300 | 0 |
| BALANCE | T15 | LOCKED | 300 | 0 | LOCKED | 300 | 0 |
| BALANCE | T15 | LOCKED | 300 | 0 | LOCKED | 300 | 0 |
| UNLOCK 321 | T17 | READY | 300 | 0 | READY | 300 | 0 |
| LOCK 321 | T4 | LOCKED | 300 | 0 | LOCKED | 300 | 0 |
| UNLOCK 321 | T17 | READY | 300 | 0 | READY | 300 | 0 |
| BALANCE | T13 | READY | 300 | 0 | READY | 300 | 0 |
| WITHDRAW 10 | T11 | READY | 290 | 0 | READY | 290 | 0 |
| WITHDRAW 10 | T11 | READY | 280 | 0 | READY | 280 | 0 |
| BALANCE | T13 | READY | 280 | 0 | READY | 280 | 0 |
| WITHDRAW 100 | T14 | OVERDRAWN | 160 | 0 | OVERDRAWN | 160 | 0 |
| LOCK 321 | T20 | LOCKED | 160 | 0 | LOCKED | 160 | 0 |
| BALANCE | T15 | LOCKED | 160 | 0 | LOCKED | 160 | 0 |
| UNLOCK 321 | T19 | OVERDRAWN | 160 | 0 | OVERDRAWN | 160 | 0 |
| BALANCE | T22 | OVERDRAWN | 160 | 0 | OVERDRAWN | 160 | 0 |
| BALANCE | T22 | OVERDRAWN | 160 | 0 | OVERDRAWN | 160 | 0 |
| DEPOSIT 20 | **T21** | **OVERDRAWN** | **170** | **0** | **OVERDRAWN** | **160** | **0** |
| BALANCE | T22 | OVERDRAWN | 170 | 0 | OVERDRAWN | 160 | 0 |
| LOCK 321 | T20 | LOCKED | 170 | 0 | LOCKED | 160 | 0 |
| UNLOCK 321 | T19 | OVERDRAWN | 170 | 0 | OVERDRAWN | 160 | 0 |
| BALANCE | T22 | OVERDRAWN | 170 | 0 | OVERDRAWN | 160 | 0 |
| DEPOSIT 100 | T16 | READY | 270 | 0 | READY | 260 | 0 |
| BALANCE | T13 | READY | 270 | 0 | READY | 260 | 0 |
| LOGOUT | T10 | IDLE | 270 | 0 | IDLE | 260 | 0 |
| LOGIN 140 | T7 | IDLE | 270 | 0 | IDLE | 260 | 0 |

As from the above table we can see that expected results are not matched with produced result. Hence the test case is **FAILED**. The contradicting operations are highlighted in RED color in the above table. The transition ***T6*** and ***T21*** have bug in the source code. The cause of failure is given later in this report in the section of Cause of Failure.

## TestCase#2

### Incorrect Produced Output and Expected correct output

| Function Called | Transition | Expected Result | | | Produced Result | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | State After Transition | Balance | No. of Unsuccessful Attempt |
| OPEN 100 123 190 | T1 | IDLE | 190 | 0 | IDLE | 190 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 190 | 0 | CHECK PIN | 190 | 0 |
| PIN 123 | T8 | OVERDRAWN | 190 | 0 | OVERDRAWN | 190 | 0 |
| BALANCE | T22 | OVERDRAWN | 190 | 0 | OVERDRAWN | 190 | 0 |
| LOGOUT | T9 | IDLE | 190 | 0 | IDLE | 190 | 0 |
| LOGIN 135 | T7 | IDLE | 190 | 0 | IDLE | 190 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 190 | 0 | CHECK PIN | 190 | 0 |
| PIN 123 | T8 | OVERDRAWN | 190 | 0 | OVERDRAWN | 190 | 0 |
| DEPOSIT 10 | **T21** | **OVERDRAWN** | **190** | **0** | **READY** | **200** | **0** |
| DEPOSIT 10 | **T21** | **OVERDRAWN** | **190** | **0** | **READY** | **210** | **0** |
| LOCK 321 | T20 | LOCKED | 190 | 0 | LOCKED | 210 | 0 |
| UNLOCK 321 | T19 | OVERDRAWN | 190 | 0 | READY | 210 | 0 |
| DEPOSIT 10 | **T21** | **OVERDRAWN** | **190** | **0** | **READY** | **220** | **0** |
| DEPOSIT 100 | T16 | READY | 290 | 0 | READY | 320 | 0 |
| WITHDRAW 100 | T14 | OVERDRAWN | 170 | 0 | READY | 220 | 0 |
| BALANCE | T22 | OVERDRAWN | 170 | 0 | READY | 220 | 0 |
| LOGOUT | T9 | IDLE | 170 | 0 | IDLE | 220 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 170 | 0 | CHECK PIN | 220 | 0 |
| PIN 1 | T3 | CHECK PIN | 170 | 0 | CHECK PIN | 220 | 1 |
| LOGOUT | T5 | IDLE | 170 | 0 | IDLE | 220 | 1 |
| LOGIN 100 | T2 | CHECK PIN | 170 | 0 | CHECK PIN | 220 | 0 |
| PIN 2 | T3 | CHECK PIN | 170 | 1 | CHECK PIN | 220 | 1 |
| PIN 2 | T3 | CHECK PIN | 170 | 2 | CHECK PIN | 220 | 2 |
| PIN 2 | **T6** | **IDLE** | **170** | **2** | **IDLE** | **220** | **3** |
| LOGIN 100 | T2 | CHECK PIN | 170 | 0 | CHECK PIN | 220 | 0 |
| PIN 2 | T3 | CHECK PIN | 170 | 1 | CHECK PIN | 220 | 1 |
| PIN 123 | T8 | OVERDRAWN | 170 | 1 | READY | 220 | 1 |
| LOCK 321 | T20 | LOCKED | 170 | 1 | LOCKED | 220 | 1 |
| UNLOCK 321 | T19 | OVERDRAWN | 170 | 1 | READY | 220 | 1 |
| LOCK 321 | T20 | LOCKED | 170 | 1 | LOCKED | 220 | 1 |
| UNLOCK 321 | T19 | OVERDRAWN | 170 | 1 | READY | 220 | 1 |
| DEPOSIT 10 | **T21** | **OVERDRAWN** | **170** | **1** | **READY** | **230** | **1** |
| LOGOUT | T9 | IDLE | 170 | 1 | IDLE | 230 | 1 |

As from the above table we can see that expected results are not matched with produced result. Hence the test case is **FAILED**. The contradicting operations are highlighted in RED color in the above table. The transition ***T6*** and ***T21*** have bug in the source code. The cause of failure is given later in this report in the section of Cause of Failure.

## TestCase#3

### Incorrect Produced Output and Expected correct output

| Function Called | Transition | Expected Result | | | Produced Result | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| State After Transition | Balance | No. of Unsuccessful Attempt | State After Transition | Balance | No. of Unsuccessful Attempt |
| OPEN 100 123 190 | T1 | IDLE | 190 | 0 | IDLE | 190 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 190 | 0 | CHECK PIN | 190 | 0 |
| PIN 123 | T8 | OVERDRAWN | 190 | 0 | OVERDRAWN | 190 | 0 |
| DEPOSIT 100 | T16 | READY | 290 | 0 | READY | 290 | 0 |
| LOGOUT | T10 | IDLE | 290 | 0 | IDLE | 290 | 0 |
| LOGIN 100 | T2 | CHECK PIN | 290 | 0 | CHECK PIN | 290 | 0 |
| PIN 2 | T3 | CHECK PIN | 290 | 1 | CHECK PIN | 290 | 1 |
| PIN 123 | T18 | READY | 290 | 1 | READY | 290 | 1 |
| WITHDRAW 100 | T14 | OVERDRAWN | 170 | 1 | OVERDRAWN | 170 | 1 |
| DEPOSIT 10 | **T21** | **OVERDRAWN** | **170** | **1** | **OVERDRAWN** | **160** | **1** |
| LOCK 321 | T20 | LOCKED | 170 | 1 | LOCKED | 160 | 1 |
| UNLOCK 321 | T19 | OVERDRAWN | 170 | 1 | OVERDRAWN | 160 | 1 |
| DEPOSIT 100 | T16 | READY | 270 | 1 | READY | 260 | 1 |
| DEPOSIT 10 | T12 | READY | 280 | 1 | READY | 270 | 1 |
| BALANCE | T13 | READY | 280 | 1 | READY | 270 | 1 |
| LOCK 321 | T4 | LOCKED | 280 | 1 | LOCKED | 270 | 1 |
| UNLOCK 321 | T17 | READY | 280 | 1 | READY | 270 | 1 |
| WITHDRAW 100 | T14 | OVERDRAWN | 160 | 1 | OVERDRAWN | 150 | 1 |
| DEPOSIT 100 | T16 | READY | 260 | 1 | READY | 250 | 1 |
| WITHDRAW 10 | T11 | READY | 250 | 1 | READY | 240 | 1 |
| DEPOSIT 10 | T12 | READY | 260 | 1 | READY | 250 | 1 |
| WITHDRAW 10 | T11 | READY | 250 | 1 | READY | 240 | 1 |
| LOCK 321 | T4 | LOCKED | 250 | 1 | LOCKED | 240 | 1 |
| UNLOCK 321 | T17 | READY | 250 | 1 | READY | 240 | 1 |
| DEPOSIT 10 | T12 | READY | 260 | 1 | READY | 250 | 1 |
| WITHDRAW 100 | T14 | OVERDRAWN | 140 | 1 | OVERDRAWN | 130 | 1 |
| LOGOUT | T9 | IDLE | 140 | 1 | IDLE | 130 | 1 |
| LOGIN 100 | T2 | CHECK PIN | 140 | 0 | CHECK PIN | 130 | 0 |
| PIN 123 | T8 | OVERDRAWN | 140 | 0 | OVERDRAWN | 130 | 0 |
| LOGOUT | T9 | IDLE | 140 | 0 | IDLE | 130 | 0 |

As from the above table we can see that expected results are not matched with produced result. Hence the test case is **FAILED**. The contradicting operations are highlighted in RED color in the above table. The transition ***T6*** and ***T21*** have bug in the source code. The cause of failure is given later in this report in the section of Cause of Failure.

# Cause of Failure

## Transition – ***T6***

According to given Figure 1: EFSM of *Account* class T6 will be executed if number of unsuccessful login attempts is 2. It will be moved to IDLE state, so the number of unsuccessful attempts will be 2 after this transition but in the given code it is being incremented always if given pin is incorrect. EFSM figure does not mention about incrementing number of attempts in transition T6. The below code is for *pin()* method from *account* class.

Graphical user interface, text, application, email

Description automatically generated

Figure : *pin()* method from *account* class

## Transition – ***T21***

According to given Figure 1: EFSM of *Account* class T21 will be executed if it is already in OVERDRAWN state while depositing an amount such that after deposit the final balance will be less than $200. In such situation a $10 fee will be imposed but in the given code a $20 fee (stored in constant variable named *x6*) has been imposed here. The below code is for *variable declaration of x6, account() constructor* for variable initialization with $20 fee and *deposit()* method of account class and the portion of the and the line is highlighted that has the bug.

Graphical user interface, text, application

Description automatically generated

Figure :Variable declaration of *x6*

Graphical user interface, application, Teams

Description automatically generated

Figure : *account()* constructor for variable initialization with $20 fee

Graphical user interface, text, application

Description automatically generated

Figure : *deposit()* method of *account* class

# Instruction to Execute Test Cases

The submission is given as zip file named “CS589ProjectSubmission\_Sukanta.zip”. After extracting the zip, there are 7 items in the folder:

* Account class 🡪 account.java
* Driver class 🡪 TestDriver.java
* Test suit 🡪 TS.txt
* Test suite checker 🡪 test\_suite\_checker.exe
* Test Executable jar file 🡪 TestDriver\_Sukanta.jar
* Test Executable exe file 🡪 TestDriver\_Sukanta.exe
* Project Report 🡪 Project\_Report\_Sukanta.pdf

## Minimum System Requirement

To run the test, suit a system is required with JRE installed of minimum version of JRE SE 1.7.0.

## Validate Test Suite

To validate the test case run “test\_suite\_checker.exe” and press enter key to continue. It will verify the test suit and if there are no error exits, we can proceed with testing.

Text

Description automatically generated

Figure :Test suite checker

Graphical user interface, text

Description automatically generated

Figure : Test suite checker with no errors detected

There are no errors in the test suit, so we can start with testing.

## Execution on Windows System

The test driver can be run on Windows machine using the following method:

1. Open command prompt in the folder location and execute the following command

***“java -jar TestDriver\_Sukanta.jar”***

Text

Description automatically generated

Figure :Run Executable JAR file in Windows

1. Run ***“TestDriver\_Sukanta.exe”***

Graphical user interface, text

Description automatically generated

Figure : Run executable exe file in Windows

Press enter key to continue.

Graphical user interface, text

Description automatically generated

Figure : Test Environment Menu in Windows

## Execution on Mac/Non-windows System

Open terminal in the same folder and run the following command

***“java -jar TestDriver\_Sukanta.jar”***

Text

Description automatically generated

Figure :Run executable JAR in MAC

Press enter key to continue

Text

Description automatically generated

Figure :Test environment menu in MAC

# Conclusion

The implementation of testing environment was second most time-consuming part after the test case writing. Testing-oriented methods helped me to get the values of variables at any given point in time. The environment gives the performed test case and results at each step. To verify the code is giving the correct/expected output all the calculation was done manually in mind. These calculations are also shown in each table of correctness. It has been tried during this project to keep the number of test cases lower to reduce extensive manual work.

# Automation and Future Scope

The test driver class has been designed such that it gives the performed test case and results at each step. This part has been **semi-automated** to speed up with the testing and verification part. **Total automation** of this testing is possible but design such testing environment is challenging. One of the possible solutions is by creating a testing environment which takes the test suite and expected results as input and using testing-oriented methods it will return the comparison of actual vs expected result as a report for failed and passed test cases. In that case a tester needs to just provide the test suite and expected results. Although, we still need to investigate the code to detect and fix the bugs if any.

***\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* END OF REPORT \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\****