

COMP 1451 Lab 4-a (2 points)

This lab is meant to be done with a partner.

Download the file “1451Lab4a”.

On paper:

Examine the **interface** (documentation view) of this class. Do not look at the code yet. Work with your partner to design tests for each method. Think carefully about how to do this. Be sure to design both positive and negative tests. What data will you use? How will you know the test has passed? Write down your test plan.

In BlueJ:

Using the JUnit testing facility provided with BlueJ, follow your test plan to create unit tests that thoroughly test the class. Your tests should find any bugs that might exist in the project. There is at least one bug.

Each test method must end with an assert statement to ensure the tests can be run automatically. If the method you are testing does not return a value you will need to use another method that does to help in the test. Each test method should be short, and test only one thing.

Note:

Because the BankAccount class has a static field used to keep track of how many account numbers have been assigned, every new object created will have a different account number. This will cause problems during testing unless you reset the field before each test. For that reason you have a static method resetAccountCounter() that must be invoked at the beginning of the test class' setup() method if you are using the account number in your tests.

Demonstrate your completed project to your instructor or TA before leaving the lab and be sure we have checked it off for each member of the team. A suggested solution will be given during the next class and labs that have not been checked off will not receive any points.