DesktopHandlerTest result:

```
■ eclipse-workspace - BankProject/src/DesktopHandlerTest.java - Eclipse IDE
Eile Edit Source Refactor Navigate Search Project Run Window Help
□ ☑ ServerTestsRunner.java ☑ DesktopHandlerTest.java × ☑ ATMHandlerTest.java
<sup>‡</sup> Package Explorer do JUnit ×
                                         26
inished after 0.268 seconds
Runs: 6/6 Errors: 0 Failures: 0
                                                                                                     29
                                                                                                                     public void stage1_testLoginType() {
                                                                                                                             30
                                                                                                     31

→ Bi DesktopHandlerTest [Runner: JUnit 5] (0.061 s)

        stage1_testLoginType (0.000 s)
                                                                                                     33
        34
                                                                                                     35
        String text = username + "," + password;
        stage4_testUpdateType (0.035 s)
                                                                                                     37
38
        dtMsgTest = new Message(bankNum ,sender,type,status,text);
dtTest = new ClientHandlerMethod(dtMsgTest);
        39
                                                                                                     40
                                                                                                     41
                                                                                                                              Message svrMsg = dtTest.desktopHandler(dtMsgTest);
                                                                                                     42
                                                                                                                              String msgStatus = svrMsg.getStatus();
                                                                                                                                                                                                                                                                        // Client looks for
                                                                                                     43
                                                                                                     44
                                                                                                                               System.out.println("Employee login: " + msgStatus);
                                                                                                     45
                                                                                                                              assertTrue("success".equalsIgnoreCase(msgStatus));
                                                                                                     46
                                                                                                                     }

    Problems @ Javadoc   □ Declaration   □ Console ×

                                                                                                 < terminated > Desktop Handler Test \ [JUnit] \ C: \ Users \ b0 \ yra \ p2 \ pool \ plugins \ org. eclipse. justj. openjdk. hotspot. jre. full. win 32. x 86\_64\_90. full. win 32. x 86\_90. fu
                                                                                                  ***Bank1-Internal Test***
                                                                                                 Employee login: success
                                                                                  Authorization login: authorized
Failure Trace
                                                                                                 CustomerInfo and AccountInfo: 3456,4567,888888,0202,Doe,J,96 Sun,4567,checking,in use,2.00
                                                                                                 Number of object in text: 11
Inquiry 'status' from server: success
                                                                                                 Update: success
                                                                                                Logout status: success
                                                                                                 No 'type' return from server: 1,desktop,login,failed,how are you
```

ATMHandlerTest result:

```
🛑 eclipse-workspace - BankProject/src/ATMHandlerTest.java - Eclipse IDE
<u>File Edit Source Refactor Navigate Search Project Run Window Help</u>
□ □ ServerTestsRunner.java □ DesktopHandlerTest.java
ATMHandlerTest.java ×
                   26
Finished after 0.339 seconds
                                             27
                                                    @Test
                                             289
Runs: 6/6
              Errors: 0
                           □ Failures: 0
                                             29
                                                    public void stage1_Bank1testAcceptCard() {
                                                        System.out.println("***Bank1-ATM Test***\n");
                                             30
                                             31
                                                        aAccount.loadData(acctFile);

→ Bath ATMHandlerTest [Runner: JUnit 5] (0.085 s)
                                             32
                                                        int aCount = 0;
    stage1_Bank1testAcceptCard (0.023 s)
                                             33
                                                        int bCount = 0;
    stage2_Bank1testRejectCard (0.004 s)
                                                        for(int i = 0; i < aAccount.getNumAcct(); i++) {</pre>
                                             35
    36
                                                            if("not used".equalsIgnoreCase(aAccount.getStatus

■ stage4 Bank1testChangeAndSave (0.016 s)

                                             37
                                                                 aCount++:
    stage5_Bank2testAcceptCard (0.016 s)
                                             38
                                                            }
    ## stage6_Bank2testChangeAndSave (0.018 s)
                                             39
                                             40
                                                        System.out.println("Before login - Number of account:
                                             41
                                             42
                                                        atmMsgTest = new Message("1","ATM","login","","77777
                                             43
                                                        atmTest = new ClientHandlerMethod(atmMsgTest);
                                             44
                                                        atmMsgTest = atmTest.atmHandler(atmMsgTest);
                                             45
                                             46
                                                        String msgStatus = atmMsgTest.getStatus();
                                           🖺 Problems @ Javadoc 🚇 Declaration 📮 Console 🗵
                                           <terminated> ATMHandlerTest [JUnit] C:\Users\b0yra\.p2\pool\plugins\org.eclipse.justj.ope
                                           ***Bank1-ATM Test***
                                           Before login - Number of accounts 'not used' status: 4
                                           ATM(correct pin) - Card accepted: success
                                    After login - Number of accounts 'not used' status: 3
Failure Trace
                                           ATM(incorrect pin) - Card accepted: failed
                                           Using card already in use: Account is in use
                                           ATM - Before logout account info: 2345, checking, in use, 341.08
                                           ATM - Logout status: success
                                           ATM - After logout account info: 2345, checking, not used, 361.08
                                           ***Bank2-ATM Test***
                                           Before login - Number of accounts 'not used' status: 2
                                           ATM(correct pin) - Card accepted: success
                                           After login - Number of accounts 'not used' status: 1
                                           ATM - Before logout account info: 6789, checking, in use, 1601.09
                                           ATM - Logout status: success
                                           ATM - After logout account info: 6789, checking, not used, 1621.09
```

ServerTestsRunner result:

```
☑ ServerTestsRunner.iava ×
  1⊕ import org.junit.runner.JUnitCore;
 5 public class ServerTestsRunner {
       public static void main(String[] args) {
 69
          Result result = JUnitCore.runClasses(AllTests.class);
 7
 8
          for (Failure failure : result.getFailures()) {
 9
10
             System.out.println(failure.toString());
 11
 12
 13
14
          System.out.println("All tests success: " + result.wasSuccessful
15
       }
16 }
 17
🖺 Problems @ Javadoc 🚇 Declaration 📮 Console ×
<terminated> ServerTestRunner [Java Application] C:\Users\b0yra\.p2\pool\plugins\org.eclipse.justj.o
Number of object in text: 11
Inquiry 'status' from server: success
Update: success
Logout status: success
No 'type' return from server: 1,desktop,login,failed,how are you
***Bank1-ATM Test***
Before login - Number of accounts 'not used' status: 4
ATM(correct pin) - Card accepted: success
After login - Number of accounts 'not used' status: 3
ATM(incorrect pin) - Card accepted: failed
Using card already in use: Account is in use
ATM - Before logout account info: 2345, checking, in use, 321.08
ATM - Logout status: success
ATM - After logout account info: 2345, checking, not used, 341.08
***Bank2-ATM Test***
Before login - Number of accounts 'not used' status: 2
ATM(correct pin) - Card accepted: success
After login - Number of accounts 'not used' status: 1
ATM - Before logout account info: 6789, checking, in use, 1581.09
ATM - Logout status: success
ATM - After logout account info: 6789, checking, not used, 1601.09
All tests success: true
```