

Creating a Simple Bank Package



Note – This exercise is part of the ongoing Banking project. You must make sure that you have completed all prior exercises related to this project before attempting this exercise. If you encountered difficulty in completing the prior exercise related to this project, you may obtain the prior exercise's solution files from the `projects\StarterFiles` directory.

In this exercise, you will create development environment for the Banking project with `src` and `classes` directories. You will also place the `Account` class and `TestAccount` program into packages.

Figure 2-3 shows a UML diagram of the packages that you will create in this exercise. The `Account` class will be placed in the `com.mybank.domain` package and the `TestAccount` class will be placed in the `com.mybank.test` package.

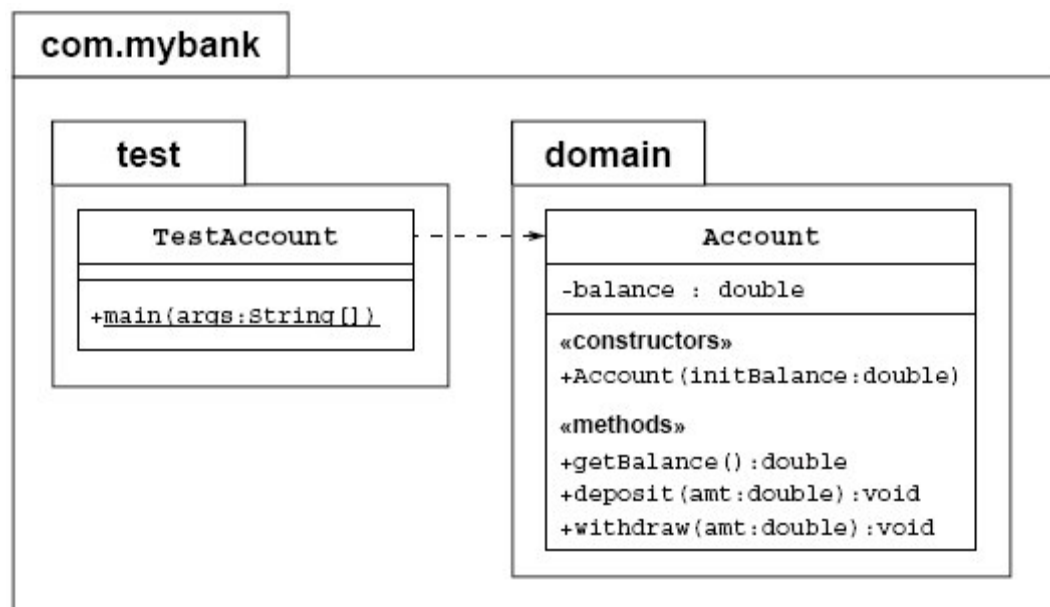


Figure 2-3 The Package Structure of the Banking Project

Preparation

1. Go to the `projects\BankPrj\` directory.

Task 1 – Creating the Development Directories

2. Create the development environment directories for the source and class files.

```
mkdir src\com\mybank\domain  
mkdir src\com\mybank\test  
mkdir classes
```

Task 2 – Modifying the Account Class

3. Using a text editor, modify the `Account.java` source file and place the class in the appropriate package. Add the following package statement to the top of the `Account.java` source file:

```
package com.mybank.domain;
```

Move the `Account.java` source file into the appropriate development subdirectory.

```
move Account.java src\com\mybank\domain
```

Task 3 – Modifying the TestAccount Program

4. Using a text editor, modify the `TestAccount.java` source file, place the program in the appropriate package, and include the appropriate imported classes. Add the following package and import statements to the top of the `TestAccount.java` source file:

```
package com.mybank.test;  
import com.mybank.domain.Account;
```

Move the `TestAccount.java` source file into the appropriate development subdirectory.

```
move TestAccount.java src\com\mybank\test
```

Task 4 – Cleaning Up the Project Directory

5. Remove all class files and any backup files created by your text editor.

```
del *.class
```

Task 5 – Compiling the TestAccount Program

6. On the command line, use the `javac` command to compile the test program and the `Account` class.

```
cd src
javac -d ..\classes com\mybank\test\TestAccount.java
```

Task 6 – Running the TestAccount Program

7. On the command line, use the `java` command to run the test program.

```
java -classpath ..\classes com.mybank.test.TestAccount
```

The code has not changed, so you should still see the following output:

```
The final balance is 147.0
```