## Exercise 7-1       Enhance the Line Item application

This exercise guides you through the process of testing and enhancing the Line Item application that is presented in this chapter.

1. Open the project named ch07_ex1_LineItem that's in the ex_starts directory. Then, review the code for the LineItemApp, Validator, Product, LineItem, and ProductDB classes.

2. Run the project and test it with valid codes like "java", "jsps", and "mcb2" to make sure that this application works correctly. Then, test it with an invalid code to see how that works.

3. Add another product to the ProductDB class. Its code should be "txtp", its description should be "TextPad", and its price should be $20.00. Then, test the application again with the new product code. This shows that you can make a change to a class without affecting the other classes that use it.

4. Modify the methods for the Validator class so they are regular methods instead of static methods. Then, add a constructor to the Validator class that takes zero arguments.

5. Modify the LineItemApp class so it creates a Validator object named v from the Validator class. Then, use the Validator object to call the methods of the Validator class.

6. Run the project and test it to make sure it works the same.