

# Exercises

## Design Patterns: Façade

Java SE and Java EE patterns and best practices

João Miguel Pereira – <http://jpereira.eu>



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## 0 Prerequisites, assumptions and notes

- Have Maven 2 installed in your computer
- Have Eclipse installed in your computer (Recommended: Indigo Version)
- I'm assuming you're running the exercises in Ubuntu
- It's recommended that you place all Design Pattern exercises under a common directory. For example:  
`${user.home}/javatraining/designpatterns`

During the exercises I will refer this directory as  
`${designpatterns.exercises.folder}`

1. In every exercise I will refer the directory where you are working as  
`${project.dir}`.

## 1 Quick Start Exercise

You will put your hands on a small program and apply the Façade Design Pattern.

### 1.1 Checkout code and create eclipse project

In this step you will checkout the code to `${project.dir}`.

***Complete the following tasks.↓***

1. Go to the `${project.dir}` directory

```
cd ${project.dir}
```

2. Checkout the code from code.google.com

```
svn checkout  
http://javatraining.googlecode.com/svn/designpatterns/trunk/facade
```

3. Enter the created directory and run the tests to check that everything is ok.

```
mvn test
```

4. Enter the created folder and generate the eclipse project

```
mvn eclipse:eclipse
```

5. Import project into eclipse

✓ *you're done! You have now the project ready to refactor.*

## 1.2 Implement the Façade pattern

***Complete the following tasks. ↓***

1. Open the project **facade** with eclipse
2. Open type `BookStoreFacadeTest`.
3. Find the method `createFacade()` and read the instructions
4. Create a class named `DefaultBookStoreFacade` that implement the interface `BookStoreFacade` and run the test until the test is green.

✓ *you're done!*