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**Exercise 7: Implementing the Observer Pattern**

**Scenario:**

You are developing a stock market monitoring application where multiple clients need to be notified whenever stock prices change. Use the Observer Pattern to achieve this.

**Steps:**

1. Create a New Java Project:

Create a new Java project named ObserverPatternExample.

2. Define Subject Interface:

Create an interface Stock with methods to register, deregister, and notify observers.

3. Implement Concrete Subject:

Create a class StockMarket that implements Stock and maintains a list of observers.

4. Define Observer Interface:

Create an interface Observer with a method update().

5. Implement Concrete Observers:

Create classes MobileApp, WebApp that implement Observer.

6. Test the Observer Implementation:

Create a test class to demonstrate the registration and notification of observers.  
**output:**

