**IMPLEMENTING THE OBSERVER PATTERN:**

1. **Creating a New Java Project**
   * A new Java project named ObserverPatternExample was set up.
2. **Defining the Subject Interface**
   * An interface named Stock was defined with methods for registering, deregistering, and notifying observers to manage the observer list effectively.
3. **Implementing the Concrete Subject**
   * A class named StockMarket was developed, implementing the Stock interface and maintaining a list of observers to monitor stock price changes.
4. **Defining the Observer Interface**
   * An interface called Observer was created with a method update() to standardize the notification process for observers.
5. **Implementing Concrete Observers**
   * Classes such as MobileApp and WebApp were created, implementing the Observer interface to handle stock price updates.
6. **Testing the Observer Implementation**
   * A test class was developed to demonstrate how observers are registered and notified of stock price changes, showcasing the dynamic and responsive nature of the Observer pattern.
7. Output

