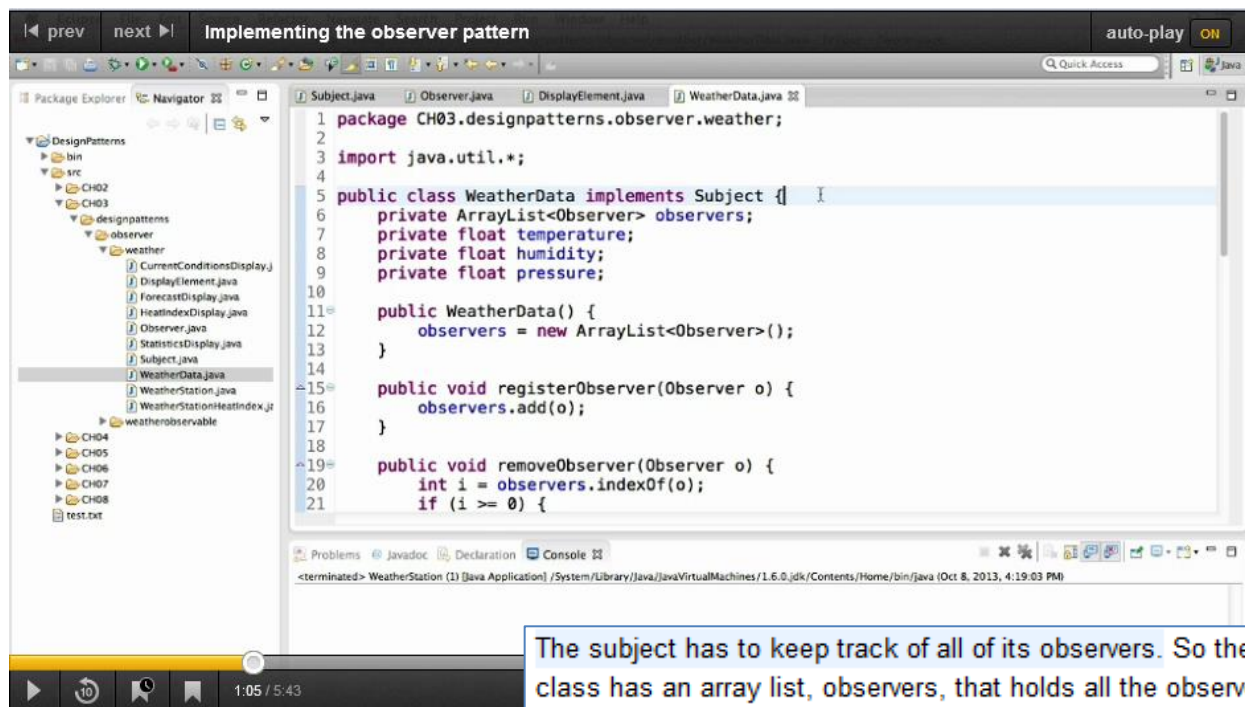


Lynda for Computer Science Students

What is Lynda: lynda.com is an online training library provided at no cost to Rowan employees and students. This includes 24/7 online access to the entire library of over 2,000 training videos which can be viewed anywhere you have Internet access. Most provide exercise files with which you can follow along. prudent

Where is Lynda: www.rowan.edu/lynda

Why is Lynda relevant: Lynda contains a large number of computer science topics from beginner to advanced.



```
1 package CH03.designpatterns.observer.weather;
2
3 import java.util.*;
4
5 public class WeatherData implements Subject {
6     private ArrayList<Observer> observers;
7     private float temperature;
8     private float humidity;
9     private float pressure;
10
11     public WeatherData() {
12         observers = new ArrayList<Observer>();
13     }
14
15     public void registerObserver(Observer o) {
16         observers.add(o);
17     }
18
19     public void removeObserver(Observer o) {
20         int i = observers.indexOf(o);
21         if (i >= 0) {
```

The subject has to keep track of all of its observers. So the weatherData class has an array list, observers, that holds all the observers. We create this array list in the constructor for the weatherData class

The video tutorials describe a particular topic and often illustrate with actual code examples as shown above.

14 results in video titles and transcripts.

Improving the singleton pattern implementation

We'll show you two ways to make the Singleton **thread safe**. ... singleton stat, and Singleton **threads safe** in the example files. ... This is guaranteed to be **thread safe**. ... The JVM will create the instance before any **thread** ... This way of creating a Singleton is **thread safe**. ... in situations when a program is using multiple **threads**. ... Another way we can ensure **thread** safety is ... one **thread** can access this method at a time. ... about **thread** safety, then use classic Singleton. ... If you're worried about **thread** safety, and you know ...

Lynda can also be searched for a specific topic, to help you zero in on a particularly relevant section of the tutorial, as shown on the left.

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Computer Science Courses in Lynda:

There are seven courses on Java. Courses have individual chapters which may run from 15 minutes to an hour. For example, here are some of the topics covered in Java Essential Training:

- Writing conditional code
- Using the switch statement
- Repeating code blocks with loops
- Handling exceptions with try/catch
- Abstract classes and interfaces

Lynda also contains more advanced courses, which can include topics such as:

- Multi-threaded applications
- Utilizing the Java Collections Framework
- Web applications development using Ruby on Rails
- An introduction to Python
- Object-oriented web applications using PHP and MySQL database

Lynda also contains source code for the exercises relevant to each chapter.

