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Course Objectives

After completing this course, you should be able to:

- Create Java technology applications that leverage the object-oriented features of the Java language, such as encapsulation, inheritance, and polymorphism
- Create applications that use the Collections framework
- Search and filter collections using lambda expressions
- Implement error-handling techniques using exception handling
- Describe Java's new module system
- Identify and address common requirements in migrating older applications to modularity





Course Objectives

- Use Lambda Expression concurrency features
- Implement input/output (I/O) functionality to read from and write to data and text files and understand advanced I/O streams
- Manipulate files, directories, and file systems using the NIO.2 specification
- Understand and apply Java secure guidelines
- Perform multiple operations on database tables, including creating, reading, updating, and deleting, using the JDBC API





Introductions

Meet your classmates and briefly introduce yourself:

- Name
- Title or position
- Company
- Experience with Java programming and Java applications
- Reasons for attending



Audience

The target audience includes those who have:

- Completed the Java SE Programming I course or have experience with the Java language and can create, compile, and execute programs
- Experience with at least one programming language
- An understanding of object-oriented principles
- Experience with basic database concepts and a basic knowledge of SQL



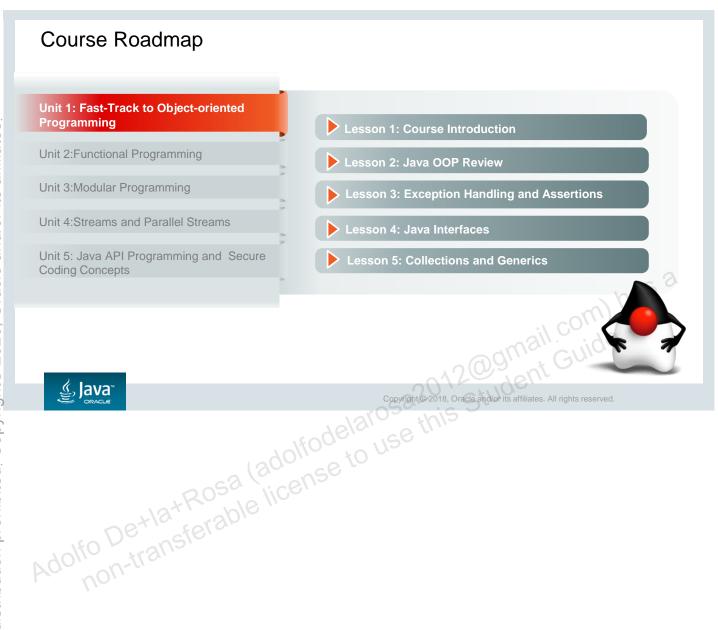


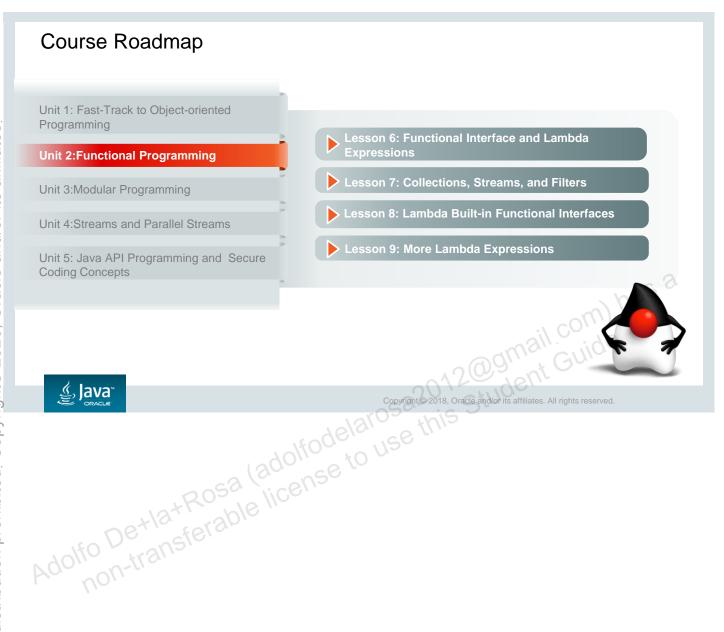
Prerequisites

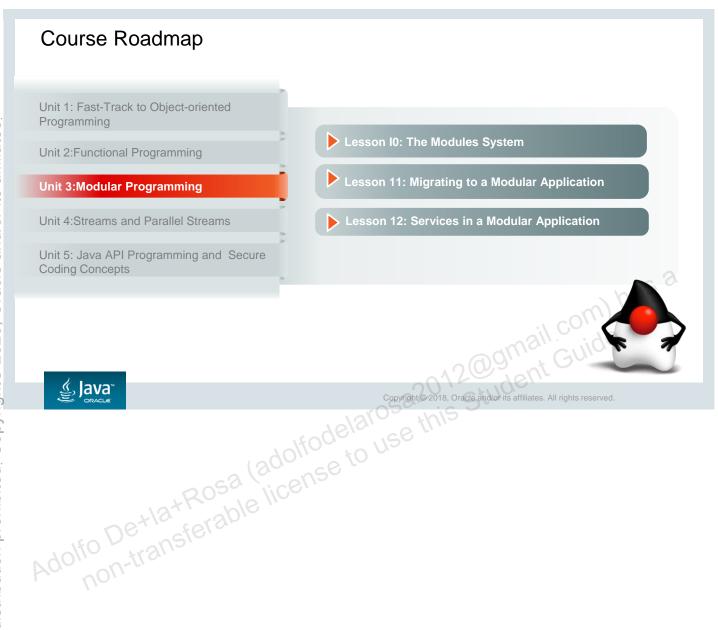
To successfully complete this course, you must know how to:

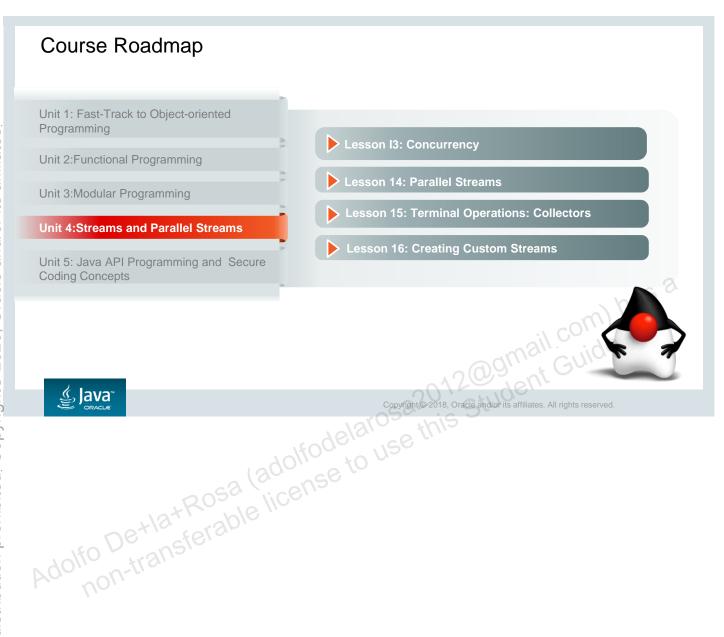
- Develop applications using the Java programming language
- Use object-oriented programming techniques
- Use primitives and classes commonly found in Java programs, such as arrays, collections, and streams
- Perform basic operating system administration from the command line

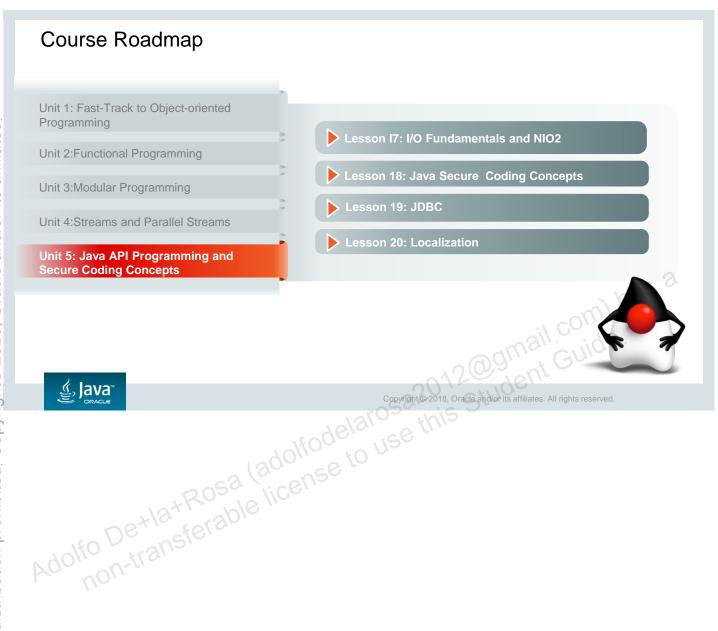








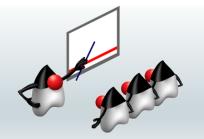




Lesson Format

Lecture / Student Guide (50%)

- Traditional slides
- Sample Code
- **Demos**
- Short quizzes

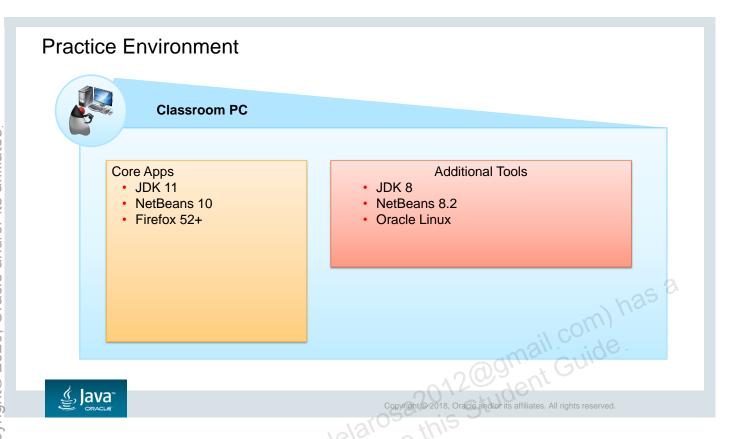


Practices / Activity Guide (50%)

- Hands-on learning
- Work with Java code







The following products are preinstalled for the lesson practices: able license

- **JDK 11**
 - **JLink**
 - **JShell**
 - **JDeprscan**
- Firefox 52+
- NetBeans 10 rc3.
- Oracle Linux is Oracle's enterprise implementation of Linux. It's compatible with RedHat Linux.

How Do You Learn More After the Course?

- In the Oracle Learning Library, there is a list of resources that you can use to learn more about Java programming. Look for the collection on the oracle.com/oll/java page.
- Oracle Learning Library:
 - http://www.oracle.com/goto/oll





Additional Resources

Resource	Website
Education and Training	http://education.oracle.com
Product Documentation	http://www.oracle.com/technology/documentation
Product Downloads	http://www.oracle.com/technology/software
Product Articles	http://www.oracle.com/technology/pub/articles
Product Support	http://www.oracle.com/support
Product Forums	http://forums.oracle.com
Product Tutorials	http://www.oracle.com/technology/obe
Sample Code	http://www.oracle.com/technology/sample_code



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The table in the slide lists web resources where you can obtain additional information about Java.

Additional Resources

Resource	Website
Java Documentation	https://docs.oracle.com/javase
API Documentation	https://docs.oracle.com/javase/10/docs/api/index.html



The table in the slide lists web resources where you can obtain additional information about Java.

Summary

In this lesson, you reviewed the course objectives and the tentative class schedule. You met your fellow students, and you saw an overview of the computer environment that you will use during the course.

Enjoy the next five days of Java SE Programming II





Practice 1: Overview

This practice covers the following topics:

- 1-1: Logging in to Oracle Linux
- 1-2: Opening Terminal Windows in Oracle Linux
- 1-3: Verifying the Version of Java
- 1-4: Opening a Text File in Oracle Linux
- 1-5: Starting NetBeans and Opening a Project







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