Oracle - Java SE 17: Programming Complete

Course Number: D1103970GC10

Duration: 5 days

Skills Gained

After completing this course, you should be able to:

- Describe the object-oriented programming approach
- Explain Java syntax and coding conventions
- Use Java constructs and operators
- Use core Java APIs, such as Collections, Streams, IO, and Concurrency
- Deploy Java SE applications

Who Can Benefit

This course on Java SE 17 (Long-Term Support release) equips you with the tools and knowledge to build secure, efficient, and maintainable applications. It positions you well for career advancement, ensures your skills remain relevant, and allows you to take full advantage of the ongoing improvements in the Java platform.

- It provides an in-depth coverage for all core Java topics and most frequently used APIs. It also offers a set of practical exercises to reinforce your learning.

Course Details

Outline

- Introduction to Java

- Primitive Types, Operators, and Flow Control Statements
- Text, Date, Time, and Numeric Objects
- Classes and Objects
- Improved Class Design
- Implement Inheritance and Use Records
- Interfaces and Generics
- Arrays and Loops
- Collections
- Nested Classes and Lambda Expressions
- Java Streams API
- Exception Handling, Logging, and Debugging
- Java IO API
- Java Concurrency and Multithreading
- Modules and Deployment
- Annotations
- Java Database Connectivity
- Java Security
- Advanced Generics
- Java Applications on Oracle Cloud
- Miscellaneous Java Topics