

Java SE 17: Programming Complete

 Duration: 10 Days

 Available Languages: English

Audience

Software Developers.

Precondition

Knowledge of programming in general.

Goals

Write programs in Java and be prepared for the Oracle Certification Exam Java SE 17 Developer (1Z0-829).

Contents

- Introduction to Java
 - # Object-Oriented Principles
 - # Inheritance and Polymorphism
 - # Access Modifiers
- Primitive Types, Operators, and Flow Control
 - # Assignment and Arithmetic Operators
 - # Binary Number Representation
 - # Selection using `?`, `if-else`, and `switch`
- Text, Date, Time, and Numeric Objects
 - # Text Blocks
 - # Wrapper Classes for Primitives
 - # Boxing, Unboxing, and Autoboxing
 - # Local Date and Time
 - # Locale: Languages and Countries
 - # Formatting and Parsing Date and Time Values
 - # `BigDecimal` and `BigInteger`
- Arrays and Loops
 - # Primitive Arrays
 - # Object Arrays
 - # Arrays of Arrays
 - # The `Arrays` Class
 - # `while`, `for`, and `do-while` loops
 - # `foreach`-loops
- Classes, Objects, and Class Design
 - # Local Variable Inference
 - # Access Modifiers Revisited
 - # Inheritance

- # Records
- # Type verification instanceof
- # Method Overloading
- # Method Overriding
- # Polymorphism
- # Sealed Classes and Controlled Inheritance
- # Factory Method Design Pattern
- # Template Method Design Pattern
- # Builder Design Pattern
- Interfaces and Generics
 - # Interfaces
 - # Default, Private, and Static Methods in Interfaces
 - # Generics
 - # Type Inference for Generics
 - # Upper Bound Wildcard
- Collections
 - # Sets
 - # Lists
 - # Maps
 - # Enumerations and Iterators
 - # Concurrent Access
- Nested Classes and Lambda Expressions
 - # Nested Classes
 - # Anonymous Classes
 - # Lambda Expressions
 - # Method References
- Java Streams API
 - # Functional Interfaces
 - # Object Streams
 - # Other Streams
 - # Filters
 - # Mappings
 - # Reductions
 - # Parallel Stream Processing
 - # Spliterators
- Exception and Error Handling
 - # Exceptions
 - # Handle-or-Declare Rule
 - # try-catch-finally
 - # AutoCloseable, try with resources
- Java I/O
 - # Binary I/O
 - # Text I/O, Unicode, UTF-8, UTF-16
 - # Working with FileSystems
 - # Creating, Renaming, Deleting Files
 - # Temporary Files
 - # Traversing Directory Trees
 - # Serialization
- Java Modules

- # JPMS Module Categories
- # module-info.java
- # Multi-Release Module Archives
- Annotations
 - # Meta Annotations
 - # Popular Annotations
 - # Annotation Processing
- JDBC
 - # Creating Connections
 - # Working with Statements, Prepared Statements, and Callable Statements
 - # Processing ResultSets
- Java Security
 - # Providers
 - # Interaction with the SecurityManager and AccessController
 - # Executing Privileged Code
 - # Guarding code from erroneous values

The course content covers the Java 17 and prepares for the Oracle Certification Exam Java SE 17 Developer (1Z0-829) with the exception/exclusion of one topic: Oracle Cloud Deployment.

Disclaimer: The course content is completely developed by Nelkinda Software Craft Pvt Ltd and is not the same as the official training from Oracle.

Booking

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