

# Java Advanced (Programming SE 8 – OCP)

## Prerequisites / Further Training

- [Java Beginner](#)
- [Beginning SQL](#)

Also have a look at our [Java Bootcamp](#)

## Alignment

Oracle OCP Certification aligned to Oracle OCP Java Exam

## After this course you should be able to

- Have a good understanding of programming and the building blocks of an OO programming language, with an emphasis on JAVA.
- Build small apps in Java, making use of I/O, Networking, GUI
- Prepare for Oracle OCA and OCP exams

## Course Material

Course Material Provided

## Course Contents

### DAY 1

#### Abstract and Nested Classes

- Modeling Business Problems with Classes
- Enabling Generalization
- Identifying the Need for Abstract Classes
- Defining Abstract Classes
- Defining Abstract Methods
- Validating Abstract Classes

- Final Methods
- Final Classes
- Final Variables
- Declaring Final Variables
- Nested Classes
- Example: Member Class
- Enumerations
- Enum Usage
- Complex Enums

## **Interfaces and Lambda Expressions**

- Java Interfaces
- A Problem Solved by Interfaces
- CrushedRock Class
- The SalesCalcs Interface
- Adding an Interface
- Interface References
- Interface Reference Usefulness
- Interface Code Flexibility
- default Methods in Interfaces
- default Method: Example
- static Methods in Interfaces
- Constant Fields
- Extending Interfaces
- Implementing and Extending
- Anonymous Inner Classes
- Anonymous Inner Class: Example
- String Analysis Regular Class
- String Analysis Regular Test Class
- String Analysis Interface: Example
- String Analyzer Interface Test Class
- Encapsulate the for Loop
- String Analysis Test Class with Helper Method
- String Analysis Anonymous Inner Class
- String Analysis Lambda Expression
- Lambda Expression Defined

- What Is a Lambda Expression?
- Lambda Expression Shorthand
- Lambda Expressions as Variables

## **7 Generics and Collections**

- Generics 7-4
- Simple Cache Class Without Generics 7-5
- Generic Cache Class 7-6
- Generics in Action 7-7
- Generics with Type Inference Diamond 7-8
- Collections 7-9
- Collection Types 7-10
- Collection Interfaces and Implementation 7-11
- List Interface 7-12
- ArrayList 7-13
- Autoboxing and Unboxing 7-14
- ArrayList Without Generics 7-15
- Generic ArrayList 7-16
- Generic ArrayList: Iteration and Boxing 7-17
- Set Interface 7-18
- TreeSet: Implementation of Set 7-19
- Map Interface 7-20
- Map Types 7-21
- TreeMap: Implementation of Map 7-22
- Deque Interface 7-23
- Stack with Deque: Example 7-24
- Ordering Collections 7-25

## **DAY 2**

### **Collections, Streams, and Filters**

- Collections, Streams, and Filters 8-3
- The Person Class 8-4
- Person Properties 8-5
- Builder Pattern 8-6
- Collection Iteration and Lambdas 8-7

- RoboCallTest07: Stream and Filter 8-8
- RobocallTest08: Stream and Filter Again 8-9
- SalesTxn Class 8-10
- Java Streams 8-11
- The Filter Method 8-12
- Method References 8-13
- Method Chaining 8-14
- Pipeline Defined 8-16

## **Lambda Built-in Functional Interfaces**

- Built-in Functional Interfaces 9-3
- The java.util.function Package 9-4
- Example Assumptions 9-5
- Predicate 9-6
- Predicate: Example 9-7
- Consumer 9-8
- Consumer: Example 9-9
- Function 9-10
- Function: Example 9-11
- Supplier 9-12
- Supplier: Example 9-13
- Primitive Interface 9-14
- Return a Primitive Type 9-15
- Return a Primitive Type: Example 9-16
- Process a Primitive Type 9-17
- Process Primitive Type: Example 9-18
- Binary Types 9-19
- Binary Type: Example 9-20
- Unary Operator 9-21
- UnaryOperator: Example 9-22
- Wildcard Generics Review 9-23

## **Lambda Operations**

- Objectives 10-2
- Streams API 10-3
- Types of Operations 10-4

- Extracting Data with Map 10-5
- Taking a Peek 10-6
- Search Methods: Overview 10-7
- Search Methods 10-8
- Optional Class 10-9
- Lazy Operations 10-10
- Stream Data Methods 10-11
- Performing Calculations 10-12
- Sorting 10-13
- Comparator Updates 10-14
- Saving Data from a Stream 10-15
- Collectors Class 10-16
- Quick Streams with Stream.of 10-17
- Flatten Data with flatMap 10-18

## **DAY 3**

### **Exceptions and Assertions**

- Error Handling 11-3
- Exception Handling in Java 11-4
- try-catch Statement 11-5
- Exception Objects 11-6
- Exception Categories 11-7
- Handling Exceptions 11-8
- finally Clause 11-9
- try-with-resources Statement 11-10
- Catching Multiple Exceptions 11-11
- Declaring Exceptions 11-12
- Handling Declared Exceptions 11-13
- Throwing Exceptions 11-14
- Custom Exceptions 11-15
- Assertions 11-16
- Assertion Syntax 11-17
- Internal Invariants 11-18
- Control Flow Invariants 11-19
- Class Invariants 11-20

- Controlling Runtime Evaluation of Assertions 11-21

## **Java Date/Time API**

- Why Is Date and Time Important? 12-3
- Previous Java Date and Time 12-4
- Java Date and Time API: Goals 12-5
- Working with Local Date and Time 12-6
- Working with LocalDate 12-7
- LocalDate: Example 12-8
- Working with LocalTime 12-9
- LocalTime: Example 12-10
- Working with LocalDateTime 12-11
- LocalDateTime: Example 12-12
- Working with Time Zones 12-13
- Daylight Savings Time Rules 12-14
- Modeling Time Zones 12-15
- Creating ZonedDateTime Objects 12-16
- Working with ZonedDateTime Gaps/Overlaps 12-17
- ZoneRules 12-18
- Working Across Time Zones 12-19
- Date and Time Methods 12-20
- Date and Time Amounts 12-21
- Period 12-22
- Duration 12-23
- Calculating Between Days 12-24
- Making Dates Pretty 12-25
- Using Fluent Notation 12-26

## **Java I/O Fundamentals**

- Objectives 13-2
- Java I/O Basics 13-3
- I/O Streams 13-4
- I/O Application 13-5
- Data Within Streams 13-6
- Byte Stream InputStream Methods 13-7
- Byte Stream OutputStream Methods 13-8

- Byte Stream: Example 13-9
- Character Stream Reader Methods 13-10
- Character Stream Writer Methods 13-11
- Character Stream: Example 13-12
- I/O Stream Chaining 13-13
- Chained Streams: Example 13-14
- Console I/O 13-15
- Writing to Standard Output 13-16
- Reading from Standard Input 13-17
- Channel I/O 13-18
- Persistence 13-19
- Serialization and Object Graphs 13-20
- Transient Fields and Objects 13-21
- Transient: Example 13-22
- Serial Version UID 13-23
- Serialization: Example 13-24
- Writing and Reading an Object Stream 13-25
- Serialization Methods 13-26

## **DAY 4**

### **Java File I/O (NIO.2)**

- Objectives 14-2
- New File I/O API (NIO.2) 14-3
- Limitations of java.io.File 14-4
- File Systems, Paths, Files 14-5
- Relative Path Versus Absolute Path 14-6
- Java NIO.2 Concepts 14-7
- Path Interface 14-8
- Path Interface Features 14-9
- Path: Example 14-10
- Removing Redundancies from a Path 14-11
- Creating a Subpath 14-12
- Joining Two Paths 14-13
- Symbolic Links 14-14
- Working with Links 14-15

- File Operations 14-16
- Checking a File or Directory 14-17
- Creating Files and Directories 14-19
- Deleting a File or Directory 14-20
- Copying a File or Directory 14-21
- Moving a File or Directory 14-22
- List the Contents of a Directory 14-23
- Walk the Directory Structure 14-24
- BufferedReader File Stream 14-25
- NIO File Stream 14-26
- Read File into ArrayList 14-27
- Managing Metadata 14-28
- Symbolic Links 14-29

## **Concurrency**

- Objectives 15-2
- Task Scheduling 15-3
- Legacy Thread and Runnable 15-4
- Extending Thread 15-5
- Implementing Runnable 15-6
- The java.util.concurrent Package 15-7
- Recommended Threading Classes 15-8
- java.util.concurrent.ExecutorService 15-9
- Example ExecutorService 15-10
- Shutting Down an ExecutorService 15-11
- java.util.concurrent.Callable 15-12
- Example Callable Task 15-13
- java.util.concurrent.Future 15-14
- Example 15-15
- Threading Concerns 15-16
- Shared Data 15-17
- Problems with Shared Data 15-18
- Nonshared Data 15-19
- Atomic Operations 15-20
- Out-of-Order Execution 15-21
- The synchronized Keyword 15-22



- synchronized Methods 15-23
- synchronized Blocks 15-24
- Object Monitor Locking 15-25
- Threading Performance 15-26
- Performance Issue: Examples 15-27
- java.util.concurrent Classes and Packages 15-28
- The java.util.concurrent.atomic Package 15-29
- java.util.concurrent.CyclicBarrier 15-30
- Thread-Safe Collections 15-32

## **The Fork-Join Framework**

- Objectives 16-2
- Parallelism 16-3
- Without Parallelism 16-4
- Naive Parallelism 16-5
- The Need for the Fork-Join Framework 16-6
- Work-Stealing 16-7
- A Single-Threaded Example 16-8
- java.util.concurrent.ForkJoinTask<V> 16-9
- xiv
- RecursiveTask Example 16-10
- compute Structure 16-11
- compute Example (Below Threshold) 16-12
- compute Example (Above Threshold) 16-13
- ForkJoinPool Example 16-14
- Fork-Join Framework Recommendations 16-15
- Summary 16-16
- Practice 16-1 Overview: Using the Fork-Join Framework 16-17
- Quiz 16-18
- 17 Parallel Streams
- Objectives 17-2
- Streams Review 17-3
- Old Style Collection Processing 17-4
- New Style Collection Processing 17-5
- Stream Pipeline: Another Look 17-6

- Styles Compared 17-7
- Parallel Stream 17-8
- Using Parallel Streams: Collection 17-9
- Using Parallel Streams: From a Stream 17-10
- Pipelines Fine Print 17-11
- Embrace Statelessness 17-12
- Avoid Statefulness 17-13
- Streams Are Deterministic for Most Part 17-14
- Some Are Not Deterministic 17-15
- Reduction 17-16
- Reduction Fine Print 17-17
- Reduction: Example 17-18
- A Look Under the Hood 17-24
- Illustrating Parallel Execution 17-25
- Performance 17-36
- A Simple Performance Model 17-37

## DAY 5

### Building Database Applications with JDBC

- Objectives 18-2
- Using the JDBC API 18-3
- Using a Vendor's Driver Class 18-4
- Key JDBC API Components 18-5
- Writing Queries and Getting Results 18-6
- Using a ResultSet Object 18-7
- CRUD Operations Using JDBC API: Retrieve 18-8
- CRUD Operations Using JDBC: Retrieve 18-9
- CRUD Operations Using JDBC API: Create 18-10
- CRUD Operations Using JDBC API: Update 18-11
- CRUD Operations Using JDBC API: Delete 18-12
- SQLException Class 18-13
- Closing JDBC Objects 18-14
- try-with-resources Construct 18-15
- Using PreparedStatement 18-16
- Using PreparedStatement: Setting Parameters 18-17

- Executing PreparedStatement 18-18
- PreparedStatement:Using a Loop to Set Values 18-19
- Using CallableStatement 18-20

## **Localization**

- Objectives 19-2
- Why Localize? 19-3
- A Sample Application 19-4
- Locale 19-5
- Properties 19-6
- Loading and Using a Properties File 19-7
- Loading Properties from the Command Line 19-8
- Resource Bundle 19-9
- Resource Bundle File 19-10
- Sample Resource Bundle Files 19-11
- Initializing the Sample Application 19-12
- Sample Application: Main Loop 19-13
- The printMenu Method 19-14
- Changing the Locale 19-15
- Sample Interface with French 19-16
- Format Date and Currency 19-17
- Displaying Currency 19-18
- Formatting Currency with NumberFormat 19-19
- Displaying Dates 19-20
- Displaying Dates with DateTimeFormatter 19-21
- Format Styles 19-22

## **Duration and pricing**

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