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Java

Course Guide

Java Language is a multi-paradigm programming language encompassing strong typing, imperative, declarative, functional, generic, object-oriented (class-based), and component-oriented programming disciplines.



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Java Language Course Contents

Java training curriculum follows the Oracle Certified Associate Java SE standards which are designed to meet the requirements of next generation programming needs.

Introduction

- What is Java?
- History
- Versioning
- The Java Virtual Machine
- Writing a Java Program
- Packages
- Simple Java Programs

Language Components

- Primitive Data Types
- Comments
- The for Statement
- The if Statement
- The while and do while Statements
- The switch Statement
- The break Statement
- The continue Statement
- Operators
- Casts and Conversions
- Keywords

Object-Oriented Programming

- Defining New Data Types
- Constructors
- The String Class
- String Literals
- Documentation
- Packages
- The String Buffer Class
- Naming Conventions
- The Date Class
- The import Statement
- Deprecation
- The StringTokenizer Class
- The Decimal Format Class

Methods

- Introduction
- Method Signatures
- Arguments and Parameters
- Passing Objects to Methods
- Method Overloading
- Static Methods

- The Math Class
- The System Class
- Wrapper Classes

Arrays

- Introduction
- Processing Arrays
- Copying Arrays
- Passing Arrays to Methods
- Arrays of Objects
- The Arrays Class
- Command Line Arguments
- Multidimensional Arrays

Encapsulation

- Introduction
- Constructors
- The this Reference
- Data Hiding
- Public and private Members
- Access Levels
- Composition
- Static Data Members

Inheritance & Polymorphism

- Introduction
- A Simple Example
- The Object Class
- Method Overriding
- Polymorphism
- Additional Inheritance Examples
- Other Inheritance Issues

Abstract Classes and Interfaces

- Introduction
- Abstract Classes
- Abstract Class Example
- Extending an Abstract Class
- Interfaces

Exceptions

- Introduction
- Exception Handling
- The Exception Hierarchy
- Checked Exceptions
- Advertising Exceptions with throws
- Developing Your Own Exception Classes
- The finally Block

Input and Output in Java

- Introduction
- The File Class

- Standard Streams
- Keyboard Input
- File I/O Using Byte Streams
- Character Streams
- File I/O Using Character Streams
- Buffered Streams
- File I/O Using a Buffered Stream
- Keyboard Input Using a Buffered Stream
- Writing Text Files

Threads

- Threads vs. Processes
- Creating Threads by Extending Thread
- Creating Threads by Implementing Runnable
- Advantages of Using Threads
- Daemon Threads
- Thread States
- Thread Problems
- Synchronization

Java Applets

- HelloWorld Example
- Drawing Shapes and using Colors
- Displaying Images
- Using GUI components
- The Layout Managers
- ActionListener
- MouseListener
- MouseMotionListener
- Double - Buffering
- Threads
- Using Libraries

Java Graphics

- Introduction
- Drawing Shapes
- Shape Classes
- Paint Styles
- Paint Classes
- Transparency
- Gradient Fills
- Tiled Images

Practical Approach

- A real example will be given throughout the lectures, starting from design, analysis, implementation and maintenance.