

Java Training: Level 1

Introduction to Java Training

Setting Up the Development Environment

Java Programming Syntax

- Structure of a .java File
- Primitive Data Types and Operators
- Commenting and Documenting Code
- Conditional Statements: if/else, etc.
- Comparison and Logical Operators
- Arrays
- Loops
- Class Methods

Object-Oriented Programming

- Objectives
- OOP vs. Procedural Programming
- Classes and Objects
- Methods and Attributes
- Relationships Between Classes
- Interface Concept
- Abstract Classes

Hands-on Workshop: *Designing classes and defining relationships between them*

Exceptions in Java

- Exception Handling Principles
- Working with Exceptions

Collections

- Overview of Collections
- Iterating Through Collections

Hands-on Workshop: *Working with object collections*