



Java Programming

Category: Programming | Duration: 2 Months (8 Weeks)

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Rs. 1,500

You Save
Rs. 1,000

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Course Overview

A beginner-to-intermediate course covering Java programming fundamentals, object-oriented programming, exception handling, and collections - building a strong foundation for software development, Android app development, and technical interviews.

Prerequisites	Tools & Technologies
Basic programming knowledge (any language) is helpful but not mandatory.	JDK, IntelliJ IDEA / Eclipse / VS Code, Git & GitHub, online compilers

Curriculum

Week 1: Java Fundamentals

- Setting up the JDK and IDE
- Variables, data types, and operators
- Input/output using Scanner and System.out

Week 2: Control Flow & Methods

- Conditional statements (if/else, switch)
- Loops - for, while, do-while
- Defining methods and method overloading

Week 3: Object-Oriented Programming Basics

- Classes and objects
- Constructors and the 'this' keyword
- Access modifiers and encapsulation

Week 4: OOP Pillars

- Inheritance and the 'super' keyword
- Polymorphism - method overriding
- Abstract classes and interfaces

Week 5: Exception Handling & Collections

- Exception handling with try/catch/finally
- Custom exceptions
- Working with ArrayList, HashMap, and HashSet



Week 6: Strings & File Handling

- String manipulation and the StringBuilder class
- Reading and writing files in Java
- Working with packages and access control

Week 7: Data Structures in Java

- Implementing linked lists using classes
- Stack and queue implementations
- Using the Collections framework for common problems

Week 8: Mini Project & Assessment

- Build a small console-based Java application
- Code review and debugging practice
- Final assessment and project presentation

What You Will Learn

- Write and debug Java programs confidently
- Apply object-oriented programming principles in Java
- Handle exceptions and use the Collections framework
- Work with strings, files, and packages in Java
- Implement basic data structures using Java classes
- Build and present a small Java-based project

To register your interest for this course, fill out the interest form on our website or contact us directly using the details below. Syllabus content is subject to minor changes to keep pace with industry updates.