CODING PRO ACADEMY

# JAVA PROGRAMMING

**Build. Code. Innovate.**

Learn Java from the ground up and build strong programming logic with real-world projects and hands-on practice.




**DURATION** **2 MONTHS**

## COURSE CURRICULUM

| | TOPICS | SUB TOPICS | |
|---|---|---|---|
| 1 | **Introduction to Java programming and platform features** | Introduction to Java<br>JDK Installation and IDE Setup | Java Platform and JVM |
| 2 | **Data types, variables, and input/output operations** | Variables and Data Types<br>Input and Output Operations | User Input using Scanner Class |
| 3 | **Operators and conditional statements** | Java Operators | If, If-Else and Nested If Statements |
| 4 | **Switch case and program control techniques** | Switch Case | Break and Continue Statements |
| 5 | **Looping concepts and logical programming** | For Loop<br>Pattern Programs | While and Do-While Loop |
| 6 | **Arrays and multidimensional data handling** | One-Dimensional Arrays<br>Array Programs | Multidimensional Arrays |
| 7 | **String handling and built-in functions** | String Class<br>Wrapper Classes | String Methods |
| 8 | **Wrapper classes and Java utility concepts** | ArrayList<br>HashMap | HashSet |
| 9 | **Collection framework basics – ArrayList, HashSet, HashMap** | Classes and Objects<br>Access Modifiers | Methods |
| 10 | **Object-Oriented Programming concepts – Classes and Objects** | Constructors<br>Getter and Setter Methods | Encapsulation |
| 11 | **Constructors and encapsulation** | Inheritance<br>Method Overriding | Method Overloading |
| 12 | **Inheritance and polymorphism** | Abstract Classes<br>Multiple Inheritance using Interface | Interfaces |
| 13 | **Interface and abstract class concepts** | Try-Catch<br>Custom Exceptions | Finally and Throw |
| 14 | **Exception handling and error management** | File Class<br>File Writing | File Reading |
| 15 | **File handling using Java I/O package** | Student Management System<br>Mini Java Project | Banking Management System |
| 16 | **Final practical assignments and coding exercises** | Level 1 Quiz<br>Final Assessment | Level 2 Quiz |

**ONLINE & OFFLINE LEARNING** | **CERTIFICATE AVAILABLE** | **LED BY IIT / IIM ALUMNI** | **AI INTERVIEW & RESUME BUILDER**


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