



# Core Java

Syllabus



## Introduction to Java

- History and evolution of Java
- Java's features and advantages.
- Installing Java Development Kit (JDK) and setting up the environment.

## Object-Oriented Programming

- Classes and objects.
- Encapsulation, inheritance, polymorphism.
- Abstract classes and interfaces.

## Multithreading and Concurrency

- Thread creation and management.
- Synchronization and thread communication.
- Best practices for multithreaded programming.

## Input/output Streams

- File handling.
- Serialization.
- Byte and character streams.

## Basics of Java Programming

- Data types, variables, and operators.
- Control statements: if, switch, loops.
- Input and output operations.

## Exception Handling

- Types of exceptions.
- Try-catch-finally blocks.
- Custom exception creation.

## Java Collections Framework

- Lists, sets, maps, and queues.
- Iterators and enhanced for-loops.
- Use cases and performance considerations.

## Java GUI Programming

- Introduction to Swing.
- Event handling.
- Building simple desktop applications.



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