

CORE JAVA + ADVANCED JAVA SYLLABUS

Java Basics

- Variables & Data Types
- Keywords & Identifiers
- Type Casting
- Input / Output
- Operators
 - Arithmetic
 - Relational
 - Logical
 - Assignment



Control Statements

- if, if-else
- switch
- for, while, do-while
- break & continue

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Arrays & Strings

- Single & Multi-Dimensional Arrays
- String Class
- StringBuffer & StringBuilder
- Difference between String, StringBuffer, StringBuilder

Object-Oriented Programming (CORE 🔥)

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- Class & Object
 - Constructors
 - this keyword
 - Access Modifiers
 - Static Keyword

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OOPS Pillars (VERY IMPORTANT 🔥)

- Encapsulation
- Inheritance
- Polymorphism
- Abstraction

Advanced OOPS Concepts

- Method Overloading
- Method Overriding
- Final Keyword
- Abstract Classes
- Interfaces

Packages & Modifiers

- User-defined Packages
- Built-in Packages
- Access Control

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Exception Handling

- Types of Exceptions
- try, catch, finally
- throw & throws
- Custom Exceptions

Multithreading

- Thread Life Cycle
- Creating Threads
- Synchronization
- Inter-Thread Communication

File Handling & I/O

- File Class
- Byte Streams
- Character Streams
- Serialization & Deserialization