

ADVANCE JAVA SYLLABUS

Core Java Fundamentals

- Data Types
- Variables & Constants
- Operators
- Control Statements (if, switch)
- Loops (for, while, do-while)
- Input / Output
- Command Line Arguments



Object-Oriented Programming (OOPS)

- Class & Object
- Encapsulation
- Inheritance
- Polymorphism
- Abstraction
- Constructors
- This & super keywords

String Handling

- String, StringBuffer, StringBuilder
- String Methods

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- Immutable vs Mutable
- String Comparison

Arrays & Collections Framework

- Arrays
- Single & Multi-Dimensional Arrays
- Array Operations
- Collections
- List (ArrayList, LinkedList)
- Set (HashSet, TreeSet)
- Map (HashMap, TreeMap)
- Iterator & ListIterator
- Comparable & Comparator

Exception Handling

- Types of Exceptions
- try-catch-finally
- throw & throws
- Custom Exceptions
- Best Practices

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Multithreading

- Thread Life Cycle
- Creating Threads
- Thread Synchronization
- Inter-thread Communication
- Deadlock
- Concurrency Basics

File Handling & I/O

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

Java 8+ Features

- Lambda Expressions
- Functional Interfaces
- Stream API
- Method References
- Optional Class
- Date & Time API