

# Java Syllabus

## RoadMap



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### Java Basics

- Types of Java
- Features
- JDK,JRE,JVM
- Java Basics
- Control Statements

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### OOPS Concept

- Inheritance
- Abstraction
- Encapsulation
- Polymorphism

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### String and Arrays

- Array
- String Handling
- String methods
- Immutable class

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### Exception handling & Multithreading

- try,catch,finally
- throw ,throws
- life cycle of thread
- How to create a thread
- Synchronization

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### Collection

- collection
- list
- set
- map
- equals() & hashCode() method

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### Java 8

- lambda
- Collectors class
- Method reference
- functional interface
- Stream API

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# Technical and Coding skill RoadMap



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## Industry Level Coading Practices

- Simple
- Well Tested
- Clear
- Bug Free
- Documented

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## Mini Projects

- By Using Control Statements
- By Using OOPS Concept & Exception Handling
- By Using Multithreading
- By Using Collection
- By Using Java 8

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## Interview Preparation

- Introduction
- Technical Questions
- Intrview Programs

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## Junit & sonarqube

- Junit Introduction
- Test Case Example
- sonarqube introduction

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## Design Pattern & Programs

- Singleton
- Custom Immutable class
- Custom Exception

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## MCQ Test, Programs and Assignments

- Daily Practice Programs
- Interview Questions for preparation
- MCQ Test

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