# JAVA - BEGINNER TO ADVANCE

**D'Code**
Innovation Labs

This course will cover all the topics which are most important for technical interviews. At the end of every topic questions based on the topic will be shared and solved.

by D'CODE Innovation Lab

## 1    JAVA

- Introduction to the course
- Installing JAVA
- JShell
- Variables
- Data Types
- Strings
- Operators
- Control Statements
- Loops
- OOPS
- IDE - Eclipse
- Reference Types
- Arrays and ArrayList
- Collections
- Generics
- Threads and Concurrency
- Exception Handling
- File Handling
- JAVA 8 Features
- JAVA New features
- Unit testing with JUnit
- Spring framework
- Spring Boot
- Maven
- DB Connectivity
- MQ Connectivity
- REST APIs
- Troubleshooting and Debugging

## 2    DATA STRUCTURES

- Introduction to Data Structure
- Big O Notation
- Essential Concept
- Memory and Logarithm
- Array
- Recursion
- Linked List
- Stack
- Queue
- Hash tables
- Trees
- Heaps
- Tries
- Graphs
- Searching Algorithm
- Sorting Algorithm
- Dynamic Programming