1. Introduction to java
2. Java Class and Basic Structure of class, package
3. Data-types(primitive and Reference)
4. For-loop, For-Each loop, Switch-Case etc.,
5. Static blocks and Non Static blocks
6. Keywords in Java
7. Constructors
8. Methods in java
9. Static and Non-Static Members
10. Arrays, ‘Java.lang.Arrays’ class
11. ‘Java.lang.String’ class
12. Contracts and Marker Interfaces
13. ‘Java.lang.Object’ class
14. OOP Concepts (Abstraction, Polymorphism, Inheritance, Encapsulation)
15. Exception Handling ( try-catch, finally, try with resources, AutoCloseable)
16. Garbage Collection
17. Collections ( Linear and Non-Linear Data Structures)
18. Multithreading (Thread, Thread pool , Future, Fork Join pool, Completable Future etc..,)
19. JVM Architecture
20. Serialization
21. Cloning n java
22. File Operations
23. Java 8 Streams ( Lambda Expressions , Functional Interfaces etc..,)
24. Parallel Processing in java
25. Regular Expressions
26. Assertions in Java
27. ‘Java.util.Math’ class Operations
28. Java 8 Date and Time APi
29. Programs Required for improving Competitive Programming Skills

Tools Required ::

JDK 1.8 version, IntelliJ IDEA Community Version (IDE)