

Core Java (JSE)

1. **Java Introduction**

- ✓ Compiler & Interpreter
- ✓ Java Magic Byte Code
- ✓ Java Virtual Machine
- ✓ Structure of Java Program

2. **Java Fundamentals**

- ✓ Jdk, Data Types
- ✓ Arrays

3. **Classes and Objects**

- ✓ OOP's definition, Advantages and Features, and Class, Object,
- ✓ Examples for Data Hiding, Attributes and Methods.
- ✓ Constructors

4. **Strings**

- ✓ Definition
- ✓ Wrapper Classes
- ✓ String, StringBuffer, and StringBuilder
- ✓ StringTokenizer

5. **Inheritance**

- ✓ Definition, extends keyword and types of inheritance
- ✓ Interface and Abstract class

6. **Polymorphism**

- ✓ Definition
- ✓ Method Overloading and Method Overriding

7. **Exception Handling**

- ✓ Definition
- ✓ Types Exceptions
- ✓ Explain try,catch,throw,throws and finally keywords

8. **Packages**

9. **Multithreading**

- ✓ Definition
- ✓ Creating own threads using Thread class and Runnable interfaces.
- ✓ Synchronization
- ✓ Interthread communication and priorities, groups

11. **Applets**

12. **AWT and EvenHandling**

13. **File, IO Streams**

Foundation Classes

Advance Java (J2EE)

- ✓ Java Database Connectivity (JDBC)
 - What is JDBC Driver
 - JDBC Components
 - Important Interfaces & Classes

2. **XML**

- ✓ What is XML?
- ✓ What is Well-Formed XML?
- ✓ Why XML is used?
- ✓ Java API for XML Processing
- ✓ DOM API
- ✓ SAX API
- ✓ DTD(Document Type Definition)
- ✓ XML Schema
- ✓ Validating XML

4. **Html ,CSS and Java Script**

5. **Servlets**

- ✓ Web Application
- ✓ What is Web Server and Web Client/Browser
- ✓ Internet vs Intranet Application
- ✓ Java Servlet
- ✓ Web Container
- ✓ Create First Servlet Program
- ✓ Http Request and Http Response
- ✓ Servlet Life Cycle
- ✓ GenericServlet Class and HttpServlet Class
- ✓ Deployment Descriptor -web.xml
- ✓ Cookies and Session Tracking
- ✓ Servlet Context