CORE JAVA COURSE CONTENT

Java Basics

- ➢ Introduction to Java
- ➢ Java Virtual Machine (JVM) Basics
- ➢ First Java Program
- ➢ Variables
- ➢ Data Types
- ➢ Operators
- ➢ Control Statements

Oops Concepts

- ➢ Constructor
- ➢ Static keyword
- ➢ Inheritance with example
- ➢ Types of inheritance
- ➢ Aggregation
- ➢ Association
- ➢ Super Keyword
- ➢ Method overloading
- ➢ Method overriding
- ➢ Method Overloading vs Method Overriding
- ➢ Polymorphism
- ➢ Types of polymorphism
- ➢ Static and dynamic binding
- ➢ Abstract class
- ➢ Abstract method with example
- ➢ Interface
- ➢ Abstract class vs interface
- ➢ Encapsulation with example
- ➢ Packages with examples
- ➢ Access modifiers

- ➢ Garbage Collection
- ➢ Final keyword

Exception Handling

- ➢ Exception handling
- ➢ Try-catch block
- ➢ Finally block
- ➢ How to throw exception in Java
- ➢ Custom Exception
- ➢ Exception Examples

Java Collections

- ➢ ArrayList
- ➢ LinkedList
- ➢ Vector
- ➢ HashMap
- ➢ TreeMap
- ➢ LinkedHashMap
- ➢ HashSet
- ➢ TreeSet
- ➢ LinkedHashSet
- ➢ Hashtable
- ➢ Queue
- ➢ PriorityQueue
- ➢ Deque & Array Deque

Miscellaneous

- ➢ Strings in Java
- ➢ Serialization
- ➢ Autoboxing and unboxing
- ➢ Wrapper Class
- ➢ Scanner Class