CORE JAVA COURSE CONTENT

Our Strength
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Duration: 30 Hours
Prerequisite: C++

Core Java Syllabus

- ❖ Explain JAVA Technology, Java Short History, Comparison of JAVA from C/C++
- ❖ Type of Application of JAVA
- ❖ JAVA 10 Features ,How to download JAVA Software Tools
- ❖ SCOPE of JAVA
- ❖ Set Environment of JAVA(Temp Path | Permanent Path)
- ❖ First Hello Word Program of JAVA
- ❖ Data type using Primitive type and Wrapper class
- ❖ Operator and Conditional Statements
  (if, if—else, nested, else if, multiple if)
- ❖ Control Structure and Switch Statement, Nested Switch Statement
- ❖ Array (One dimension, Multidimensional, Jagged, Object)
- ❖ String class, String Buffer Class, String Builder Class
- ❖ OOP's Introduction, Class and Object ,Type of Class, Inner class, Anonymous object, Generic Class, Data abstraction, Encapsulation, Polymorphism, Constructor, Garbage collector, Inheritance, Abstract class, Interface, Super Keyword, this Keyword
- ❖ Command Line input
- ❖ Input By System.in.read ()
- ❖ Exception Handling (Checked , Unchecked)
  Explain throw, throwable
- ❖ File Handling (File, File Reader, File Writer, Buffered Reader, Buffered Writer, FileInputStream, FileOutputStream)
- ❖ Serialization and Deserialization
- ❖ AWT Introduction discuss all Component
- ❖ Swing Implementation
- ❖ Applets and J-Applet
- ❖ Create Notepad using All Dialog Component
- ❖ Multithreading, explain Thread, Runnable, Sleep, Wait, notify, and notify all, Thread Synchronization
- ❖ Create JAR file by Command
- ❖ Create Package by Command

JAVA 10 Features Implementation

- ❖ Time Based Release Versioning
- ❖ Local-Variable Type Inference
- ❖ Experimental JAVA-Based JIT Compiler
- ❖ Application Class-Data Sharing
- ❖ Parallel Full GC
- ❖ Garbage Collector Interface
- ❖ Heap Allocation