

STEP GNDEC

Java Course-(6 Weeks)

Basics of Java

- ✓ Java - What, Where and Why?
- ✓ History and Features of Java
- ✓ Internals of Java Program
- ✓ Difference between JDK,JRE and JVM
- ✓ Internal Details of JVM
- ✓ Variable and Data Type
- ✓ Unicode System
- ✓ Naming Convention

OOPS Concepts

- ✓ Advantage of OOPs
- ✓ Object and Class
- ✓ Method Overloading
- ✓ Constructor
- ✓ static variable, method and block
- ✓ this keyword
- ✓ Inheritance (IS-A)
- ✓ Aggregation and Composition(HAS-A)
- ✓ Method Overriding
- ✓ Covariant Return Type
- ✓ super keyword
- ✓ Instance Initializer block
- ✓ final keyword
- ✓ Runtime Polymorphism
- ✓ static and Dynamic binding
- ✓ Abstract class and Interface
- ✓ Package and Access Modifiers
- ✓ Encapsulation
- ✓ Object class
- ✓ Object Cloning
- ✓ Java Array
- ✓ Call By Value and Call By Reference
- ✓ Creating API Document

String Handling

- ✓ String : What and Why?
- ✓ Immutable String

- ✓ String Comparison
- ✓ String Concatenation
- ✓ Substring
- ✓ Methods of String class

Exception Handling

- ✓ Exception Handling : What and Why?
- ✓ try and catch block
- ✓ Multiple catch block
- ✓ Nested try
- ✓ finally block
- ✓ throw keyword
- ✓ Exception Propagation
- ✓ throws keyword
- ✓ Exception Handling with Method

JDBC

- ✓ JDBC Drivers
- ✓ Steps to connect to the database
- ✓ Connectivity with Oracle
- ✓ Connectivity with MySQL
- ✓ Connectivity with Access without DSN
- ✓ DriverManager
- ✓ Connection interface
- ✓ Statement interface
- ✓ ResultSet interface
- ✓ PreparedStatement
- ✓ ResultSetMetaData
- ✓ DatabaseMetaData
- ✓ Storing image
- ✓ Retrieving image
- ✓ Storing file
- ✓ Retrieving file
- ✓ Stored procedures and functions
- ✓ Transaction Management
- ✓ Batch Processing
- ✓ JDBC New Features
- ✓ Mini Project

Introduction to Android –

What is Android?

Setting up development environment

Dalvik Virtual Machine & .apk file extension

Basic Building blocks - Activities, Services, Broadcast Receivers & Content providers

UI Components - Views & notifications

Components for communication - Intents & Intent Filters o Android API levels (versions & version names)

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