

ZENUS INFOTECH INDIA PVT. LTD.

CURRICULUM OF Core JAVA

Course Duration: 4-6 Weeks

INTRODUCTION TO JAVA

Features of Java

JDK, JRE& JVM

C, C++& JAVA: Comparison

Platforms of Java & Versions

First Java Program

PACKAGES

Concept of package

Need of package

How to create User Defined package

How Package can be used in Software Development

DATA TYPES, IDENTIFIERS AND VARIABLES

What is Data Types & Types?

Types of Variables, Operators & Statements

Reading Input from Java util. scanner class

Displaying Output with system.out .print ()

Displaying formatted Output with String Format ()

INPUT/OUTPUT

Accepting Input from the keyboard

Reading Input with Java util scanner class

Displaying Output with System.out.printf():

Displaying formatted Output with String Format

Condition Evaluation Statements

- if Statement
- If- else
- Else if
- Nested if Statements

Looping and Iteration

- The For Loop
- The While Loop
- Do while loop
- For each loop

Switch Statement

ARRAYS

What is Array

How Java Array are different from the array of C And C++

How to create Array and initialize array

One Dimensional Array

Two-Dimensional Array

Zigzag Array

CLASSES & OBJECTS

Oops Concepts

Creating an Objects

Initializing an Object

Access Specifiers

Constructors & its Types

What is the purpose of constructor?

What is this and super and their rules

Constructor Overloading

Static IN JAVA

Static in Java

Static Variable

Static Function

Changing values in static variable

INHERITANCE & POLYMORPHISM

Concept of Inheritance

Method Overloading & Method Overriding

Concept of Abstract Method

Concept of Interface

Multiple Inheritance using Interface

Abstract Class VS Interfaces

MULTI THREADING

Concept of Java threads

Life cycle of Java thread

Methods of Thread

Writing Thread using Class and Interface

Synchronization in Java

STRING BUFFER & STRING BUILDER

What is String

How many ways to create String Object

Difference B/W Mutable and Immutable

Methods of String Class

How Many Ways to Compare the String

String Buffer's Constructor and methods

What is String Builder's Class and its usage

How to accepting Input from the keyboard

String Builder and their usage

File Handling in Java

Creating text File

Storing data in text file

Accessing data in text file

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