

ZENUS INFOTECH INDIA PVT. LTD.

CURRICULUM OF Core & Advance JAVA

Course Duration: 6/8 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

COLLECTION

Collection of Collection

Need of Collection Framework

Collections

Collection AP (Classes and Interfaces)

How to retrieve the object from the Collection

How many ways to retrieve the object

List Interface

(ArrayList, LinkedHashSet, TreeSet class)

Concept of Map Interface

How Collection Framework is used in industries

DATABASE CONNECTIVITY

Concept of Collection

Need Of Jdbc

Types Of JDBC Driver

Type1: Jdbc-Odbc Driver

Type2: Native Driver

Type3: Network Driver

Type 4: Pure Java Driver

Database Operations

INSERTING the record in the Database

SELECTING the record from the Database

UPDATING the record from the Database

DELETE the record from the Database

WRAPPER CLASSES

WHAT are Wrapper Classes

How to create int to integer object

How to convert integer to primitive

How to convert String to Integer value

How to convert integer to binary,
Hexadecimal & Octal

NETWORKING

Concept of Networking

Socket Programming

How to create URL content

How to read URL Content

How to get My Machine IP Address

How to get Machine Host Name

One Application using Networking

Desktop application development using AWT & Swing

Fundamentals

Tools

Project (GUI Base Application)

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