

Core Java Syllabus

Introduction:

- ➤ What is Java?
- ➤ Why use java?
- > Java Installation
- > Features of Java programming
- **➤** Basic syntax

Data Types:

- > Integer
- > Float
- > Char
- > Boolean
- > String

Operators:

- > Arithmetic operators
- > Assignment operators
- > Comparison operators
- > Logical operators

Decision statements:

- > If statements
- > If-else statements
- > Else-if statements
- > Switch statements

Looping statements:

- While statements
- Do-while statements
- > For statements
- Break statements
- Continue statements

OOPS Concepts:

- Class
- Object
- > Abstraction
- > Encapsulation
- > Inheritance
- **Polymorphism**

Method or Function:

- What is Function
- > Function parameters
- > Function overloading
- Java Recursion

Array:

- ➤ What is Array?
- > What are the types of Arrays?
- > Explain Single Dimension Array
- > Explain Multidimensional Array

Interface:

- Abstract classes
- > Interfaces explanation with examples
- > Creating User interfaces using controls
- > Java string

Java Swings:

- > By creating the object of Frame class
- > By extending Frame class

Util packages:

- Introduction of Util packages
- Util packages with example

Exception Handling:

- What is Exception in java?
- ➤ What is Exception Handling?
- > Types of java Exception?
- > Try-Catch Block
- ➤ Multiple Catch Block
- ➤ Nested try Block
- > Finally block

Thread:

- What is Thread
- > Introduction example of Thread
- > What is Multithreading
- > Introduction example of Thread

Even Handling:

- > What is Even Handling
- Explain Even Handling with Examples
- > Serialization and Deserialization in java

Memory:

- > Java heap Memory
- > Java Stack Memory

Networking:

- Java Networking
- Practice with java Networking

I/O Stream:

- > Introduction of I/O Stream
- > Practice with I/O Stream

Database:

- > Introduction of Database
- > Explain Database management

Practice:

- > Practice with JDBC Examples
- > Internationalization
- > Java New features

Project:

- **➤** Mini project with Explanation
- > Guidelines to create a Project