

Java Programing

Module1: Core Java Course

Getting start with Java

- Understanding scope and purpose of java
- What is platform independence
- Java Virtual Machine(JVM)
- Java Runtime Environment(JRE)
- Environment Setup
- Objects and Classes
- Basic Syntax
- Data types in Java
- Variables

Java Basics

- Java keywords
- Basic Operators
- Control and conditional statements
- Looping control Statements
- Wrapper Classes
- Numbers
- Strings
- Arrays
- Date Time

Object Oriented Concepts in java

- Defining Class
- Creating Objects
- Java Methods Definition and Method calling
- Method return type Void keyword
- Passing parameter by value
- Method overloading
- Constructors
- Default constructor
- Parameterized constructor
- Constructor overloading
- Inheritance
- The instanceof Keyword

- Polymorphism
- Overriding
- Abstract class and methods
- Extending abstract class
- Encapsulation
- Interfaces
- Implementing Interfaces
- Extending Interface
- Extending multiple interfaces

Packages

- Builtin packages
- Creating packing
- The import keyword
- Package scope

Exception handling

- Try
- Catch
- Finally
- Throw
- Throws
- Nested Exception
- User defined Exceptions

Module2: Advanced Java

JDBC

- Introduction to JDBC
- Types of drivers and its pros and cons
- Statement Example
- PreparedStatement Example
- ResultSet Example
- CallableStatement Example

Java Collections Framework

- The collection Interfaces:List ,Set,Map,Enumaration
- The collection Classes:ListkedList,ArrayList,HashSetTreeSet,HashMap,TreeMap
- How to use Iterator and Comparator

Threading

- Thread Life Cycle
- Thread class
- Creating a Thread
- Running Threads
- Concurrency Problems

File Handling in Java

- Creating a file
- Reading File
- Deleting Files
- Creating Directories, Listing Directories

Module3: Java Server side Technologies

Servlets

- Introduction to Servlets
- Life cycle of Servlets
- Tomcat Server introduction
- Servlet Methods
- Request
- Response
- Understanding directory structure of servlets
- Reading values from web.xml
- Redirect
- Forward
- Cookie
- Session
- Database connectivity from servlets

JSP (Java Server Pages)

- Introduction to JSP
- Life cycle of JSP
- Understanding implicit objects in JSP
- Declarative
- Scriptlet
- Expression
- Page Directive
- Database communication
- Understanding JSTL
- JSTL tags

Course Details:

- Course Duration : 10 Weeks
- Training : Online
- Notes : Provided
- Contact : 9912238308
- Website : e-trainings.in