

Java

Course Content



INTRODUCTION TO JAVA

- Understanding Requirement: Why Java
- Why Java is important to the Internet

INTRODUCTION TO JAVA VIRTUAL MACHINE

- Java Virtual Machine Architecture
- Class loading process by Class loaders
- Role of Just in Time Compiler (JIT)
- Execution Engine

JAVA CLASSES AND OOP IMPLEMENTATION

- Datatypes in java
- Class Fundamentals
- Naming Conventions
- Learning static initialization
- Declaration of Objects
- Instance Variable Hiding
- Object oriented Paradigms
- Polymorphism, Inheritance and Encapsulation
- Overloading and Overriding of Methods
- Abstraction
- Understanding of Access Controls:

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- Private, public and protected
- Dynamic method Dispatching
- Using Abstract Classes
- Using final to prevent Overriding & Inheritance

EXCEPTION HANDLING

- Fundamentals of Exception handling
- Types of Exceptions
- Learning exception handlers
- Try and catch
- Multiple catch clauses
- Nested try catch
- Throw, throws and finally
- Creating custom exceptions

PACKAGES AND INTERFACES

- Defining a Package
- Understanding CLASSPATH
- Access Protection
- Importing Packages
- Defining and implementing an Interface
- Abstract classes Vs Interfaces
- Adapter Classes

STRING HANDLING

- Learning String Operations
- Learning Character Extraction
- Learning String Comparison
- Understanding of StringBuffer Class, StringBuilder class

MULTITHREADED PROGRAMMING

- The Java Thread Model

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- Creating a Thread: Extending Thread, Implementing Runnable
- Creating Multiple Threads
- Synchronization: Methods and Blocks
- Inter-thread Communication

I/O File Handling

- Understanding Streams
- Character Streams
- Byte Streams
- Serialization
- Deserialization
- Important classes: File, StringTokenizer, StreamTokenizer, PrintStream, PrintWriter and Scanner class

Reflection API

- Dynamic Loading of classes
- Different ways of dynamic loading
- Accessing fields of loaded class
- Accessing methods of loaded class
- Constructors of loaded class
- Accessing private methods and fields of loaded class outside that class

DATABASE PROGRAMMING USING JDBC

- JDBC Drivers
- Statement, PreparedStatement, CallableStatement
- Scrollable & Updatable ResultSet
- Using Excel Sheet as Database
- DatabaseMetadata
- Batch Updates
- Transaction Management

COLLECTION FRAMEWORK

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- The Collection Interfaces (List, Set, Map)
- The Collection Classes
- (ArrayList, LinkedList, HashSet, TreeSet)
- Accessing a Collection via an Iterator, ListIterator, Enumeration
- Working with Maps
- Working with Comparator and Comparable
- The Legacy Classes and Interfaces

(Enumeration, Vector, Stack, Dictionary, Hashtable)

NOTES:

- Recommend Practical hours for student except class hours is 90 Hrs
- We also provide weekend classes for all courses.
- After completion of 75% of course, student will go through Live Project Training, Interview Preparation and Recruitment process in Software Industry.
- Student will go through the training of HTML, CSS and JavaScript as a complimentary package before starting of ASP.Net. This is optional.

WEBTRACKER TECHNOLOGY has a full-fledged Placements Team in place. The Team is in touch with all our students completing the course on different technologies. On receiving recruitment request, the Team screens & shortlists candidates & sends them for tests/ interviews to the company.

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Thanks & Regards,

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