

Core Java

- **Java Language Environment**
 - Object Oriented
 - Platform Independent
 - Automatic Memory Management
 - Compiled / Interpreted approach
 - Robust
 - Secure
 - Dynamic Linking
 - MultiThreaded
 - Built-in Networking
- **Java Fundamentals**
 - Data types
 - Operators
 - Control Statements
 - Arrays
 - **Enhanced for-loop**
 - **Enumerated types,**
 - **Static import**
 - **Auto boxing**
 - **C-style formatted I/O**
 - **Variable arguments**
- **Essentials of Object-Oriented Programming**
 - Object and Class Definition
 - Using encapsulation to combine methods and data in a single class
 - Inheritance and Polymorphism
- **Writing Java Classes**
 - Encapsulation
 - Polymorphism
 - Inheritance
 - OOP in Java
 - Class Fundamentals
 - Using Objects
 - Constructor
 - Garbage Collection
 - Method Overloading
 - Method Overriding
 - Static Members
 - Understanding Interface
 - Using Interfaces
- **Packages**
 - Why packages
 - Understanding Classpath
 - Access modifiers & their Scope
- **Exception Handling**
 - Importance of Exception Handling
 - Exception Propagation
 - Exception Types
 - Using try and catch
 - throw, throws, finally
 - Writing User defined Exceptions
- **I/O Operations in Java**
 - Byte Oriented Streams
 - File Handling
 - Readers and Writers
- **Multithreaded Programming**
 - Introduction to Multi-Threading
 - Understanding Threads & its States
 - Java Threading Model
 - Thread class & Runnable Interface
 - Thread Priorities
 - Thread Synchronization
 - Interthread Communication
 - Preventing Deadlocks
- **Network Programming**
 - Introduction to Networking
 - InetAddress
 - URL
 - TCP Socket and ServerSocket
 - UDP Socket
 - Developing a Chat Application
- **Java Util Package / Collections Framework**
 - Collection & Iterator Interface
 - Enumeration
 - List and ArrayList
 - Vector
 - Comparator
 - Set Interface & SortedSet
 - Hashtable
 - Properties
- **Generics**
 - Introduction to Generics
 - Using Built-in Generics Collections
 - Writing Simple Generic Class
 - Bounded Generics
 - Wild Card Generics
- **Inner Classes**
 - Nested Top Level Classes
 - Member Classes
 - Local Classes
 - Anonymous Classes
- **Abstract Window Toolkit**
 - Graphics
 - Color and Font
 - AWT Components/Controls
 - Event Handling & Layouts
- **Swing Programming**
 - Introduction to Swing & MVC Architecture
 - Light Weight Component
 - Swing Hierarchy
 - Atomic Components e.g. JButton, JList and more
 - Intermediate Container e.g. JPanel, JSplitPane and more
 - Top-Level Container e.g. JFrame and JApplet
 - Swing Related Events

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