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A First Look

- A Simple Java Class
- Java's "Hello World" Program

Java Basics

- Language and Platform Features
- Program Life Cycle
- The Java SE Development Kit (JDK)

Class and Object Basics

- The Object Model and Object-Oriented Programming
- Classes, References, and Instantiation
- Adding Data to a Class Definition
- Adding Methods (Behavior)

More on Classes and Objects

- Accessing data, the "this" variable
- Encapsulation and Access Control, public and private Access
- Constructors and Initialization
- static Members of a Class
- Scopes, Blocks, References to Objects
- Flow of Control[briefly due to attendee experience]
- Branching: if, if-else, switch
- Iteration: while, do-while, for, break, continue





Strings and Arrays

- String, StringBuffer, StringBuilder
- Arrays, Primitive Arrays, Arrays of Reference Types
- varargs

Packages

- Package Overview - Using Packages to Organize Code
- import statements
- Creating Packages, package Statement, Required Directory Structure
- Finding Classes, Packages and Classpath

Composition and Inheritance

- Using Composition to Deal With Complexity
- Composition/HAS-A, Delegation
- Using Inheritance and Polymorphism to share commonality
- IS-A, extends, Inheriting Features, Overriding Methods, Using Polymorphism
- Class Object
- Abstract Classes

Interfaces

- Using Interfaces to Define Types
- Interfaces and Abstract Classes





- Exceptions
- Exceptions and the Exception Hierarchy
- try and catch
- Handling Exceptions
- Program Flow with Exceptions
- Finally

JDBC

- JDBC basics
- JDBC Architecture
- Using JDBC drivers & DriverManager
- Class Connection and connecting to a database
- Class Statement and executing SQL statements
- Other statement types
- Driver types

Java Collections and Generics

- The Collections Framework and its API
- Collections and Java Generics
- Collection, Set, List, Map, Iterator
- Autoboxing
- Collections of Object (non-generic)
- Using ArrayList, HashSet, and HashMap for-each Loop
- Processing Items With an Iterator
- More About Generics





The Java Streams Model

- Delegation-Based Stream Model
- InputStream and OutputStream
- Media-Based Streams
- Filtering Streams
- Readers and Writers

Working with Files

- File Class
- Modeling Files and Directories
- File Streams
- Random-Access Files

Advanced Stream Techniques

- Buffering
- Data Streams
- Push-Back Parsing
- Byte-Array Streams and String Readers and Writers

Java Serialization

For More: <https://www.traininginbangalore.com/core-java-training-bangalore/>





Assessments

- **Objective Assessments**

- Syntactical based
- Scenario based

Note: At least 2 objective based assessments in each module

- **Hands On – Practical Assessments**

- Scenario based

Note: At least 2 Hands on assessments in each module

Assignments

- **Hands On – Practical Assignments**

Note: At least 4 Hands on assignments in each module

Tasks – Home Work

- **Regular tasks on each module**

Note: Tasks are focused more to improve self learning

Resume Support & Interview Preparation

- **Work on one or two mini projects**
- **Discuss and convert the current working project into Core Java project to add in resume & to explain Core Java experience in interviews**