CORE JAVA COURSE CONTENT

1. **Fundamentals of JAVA**
   - Abstraction'
   - Principles & Concepts of Java
   - Object & Class
   - Various components of the Java environment
   - Java programs
   - Identifiers, Literals, Separators And Keywords
   - Naming conventions

2. **Data Types of Java**
   - Data & Data Types
   - Function
   - Casting
   - Attributes Of A Variable.
   - Dynamic Initialization/ Declaration Of Variables
   - Scope And its important
   - escape sequences
   - restriction on String literals
   - Assigning of characters and integers
   - Boolean variable And Its Usage
   - primitive data types
   - type casting and promotion rules
   - operators and expression

3. **Control Statements**
   - Introduction
   - Selection, Iteration, Jump

4. **Classes, Methods & Constructors**
   - Introduction to Classes
   - Members of a Class
   - Creation of Objects from Class
   - Methods
   - Arguments & Parameters
   - Overloading of Methods
   - Return Method
   - Recursion
   - Introduction to Constructors
   - Parameterized Constructors
   - Instance Variable Hiding
   - Garbage Collection

502 Sree Nilayam, Above Sampoorna Super Market, Lanco Hills Road, Manikonda, Hyderabad – 500089
Write to us at www.syllogistek.com
Call us at 9701377070 / 08413845772

5. ARRAYS
   - Array & Indexes
   - 'out of bound
   - initializing an array
   - What is a subscript?
   - Types of Array
   - Aliasing
   - Copying an array

6. STRINGS
   - What are Strings Objects
   - String Manipulation
   - Methods of Strings

7. INHERITANCE
   - Principle of inheritance.
   - subclasses and super-classes
   - Base and the derived classes
   - Implementation of Inheritance
   - Invoking constructors in a multilevel hierarchy

8. ENCAPSULATION
   - Java Encapsulation
   - Access Specifiers
   - Static & Abstract Class

9. JAVA LIBRARY CLASSES
   - library classes
   - Java packages
   - Java API
   - Interface

10. EXCEPTION HANDLING
    - Introduction
    - Checked & Un checked exceptions
    - Multiple catch blocks
    - Throwing pre-defined exception class object explicitly
    - User defined exceptions
    - block usage.

11. INTERFACE, POLYMORPHISM

12. COLLECTION FRAMEWORK

502 Sree Nilayam, Above Sampoorna Super Market, Lanco Hills Road, Manikonda, Hyderabad – 500089
Write to us at www.syllogistek.com
Call us at 9701377070 / 08413845772