" Java: A simple, object-oriented, network-savvy, interpreted, robust, secure, architecture neutral, portable, high-performance, multithreaded, dynamic language."

Introduction of Java Programming Language

* Why Java and its importance
* Introduction of OOPs
* Java features
* Java Class Structure and its member
* Main method in java.
* Printing in Java
* Java Coding Convention
* Java Data Types
* Typecasting
* Operators in Java
* Method declaration in Java
* Method calling in Java
* Method overloading in Java
* Constructor
* Arrays
* Conditional and looping Statement in java

Package Declaration

* Introduction to all predefined packages
* User Defined Packages
* Access Specifiers

Exception Handling

* Introduction
* Pre Defined Exceptions
* Try-Catch-Finally
* Throws, throw

OOPs

* Inheritance
* Method Overriding
* Field Hiding
* Use of **this** and **super** keyword
* Constructor chaining using **this**() and **super**()
* Abstract Classes, Final Classes
* Interfaces
* Reference assignment
* Use of instanceof operator
* Garbage Collections

Inner Classes

* Introduction
* Member inner class
* Static inner class
* Local inner class
* Anonymous inner class

Fundamental Classes

* Object
* String, StringBuffer and StringBuilder
* Character
* Math
* Byte, Short, Integer, Long, Float, Double, Character, Boolean classes.

Collection Frame Work

* java.util package interfaces: Collection, List, Set, Map
* Arrays and Collections class
* Comparable and Comparator
* Generics

Multi-Threading

* Introduction
* Thread Creations
* Thread Life Cycle
* Life Cycle Methods
* Synchronization

I/O Streams

* File Creation
* Reading and Writing Data from File
* Reading and Writing Data from console using Scanner class and BufferedReader class
* Object Saving(Serialization)

JDBC (JavaDataBaseConnectivity)

* Introduction of DBMS and SQL
* Types of Drivers
* Connection Modes
* Statement and PreparedStatement
* ResultSet

GUI using SWING / AWT

* Components
* Event-Delegation-Model
* Listeners
* Layouts
* Individual components JLable, JButton, JCheckBox, JRadioButton,
* JList, JMenu, JTextField, JText Area,Jtable etc.

PROJECT WORK