



# Webs Jyoti

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## Sun Java (Core)

Duration – 2 Months

### Introduction of Java

- What is Java?
- How to Get Java
- A First Java Program
- Compiling and Interpreting Applications
- The JDK Directory Structure

### Data types and Variables

- Primitive Data types ,Declarations
- Variable Names
- Numeric Literals, Character Literals
- String ,String Literals
- Operators and Expressions
- Expressions
- The Operators

### Control Flow Statements

- Statements
- Conditional (if) Statements
- Conditional (switch) Statements
- while and do-while Loops
- for Loops
- A for Loop Diagram
- Enhanced for Loop
- The continue Statement
- Arrays – 1D and 2D Arrays

### Object-Oriented Programming

- Introduction to Object-Oriented Programming
- Classes and Objects
- Fields and Methods
- Encapsulation
- Access Control
- Inheritance
- Polymorphism



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## Objects and Classes

- Defining a Class
- Creating an Object
- Instance Data and Class Data
- Methods
- Constructors
- Access Modifiers
- Encapsulation

## Topics Highlights

- Inheritance in Java
- Exception Handling
- Input /Output Streams- (PrintWriter, FileWriter, Scanner, FileInputStream, FileOutputStream)
- Java Inner Classes
- Introduction to Threads, Multi-threading
- Types of Interfaces and Abstract Classes (Marker, Serialization, Remote)
- Java Packages (awt, swing, event, applet, util, io and more..)
- Applets
- Layout (Flow, Center, Box, Card, Grid, Gridbag)
- Listeners (Mouse, Window, Key, Action)
- Collection Classes