

Core Java:- 25 days – 25 hrs

- What you need to get started
- The Net beans Software
- Java Comments
- The Structure of Java Code
- How to Run your Java Programs
- Printing to the Output Window
- Sharing your programs with others
- Object Orient Concept

Variables

- Integer Variables in Java
- Double Variables
- Short and Float
- Operator Precedence
- Java String Variables

Control Flow

- If Statements in Java
- If Else Statements
- Boolean Values
- Switch Statements
- Java for Loops
- Java While Loop

Arrays in Java

- Java Arrays
- Arrays and Loops
- Multi-Dimensional Arrays

Java String Methods

- Java and Strings
- Upper and Lowercase
- The compare Method

- The index Of Method
- The substring Method
- The equals Method
- The char At Method
- The replace Method

Object-Oriented Programming

- Describe the terms class, object, attribute, method, and constructor
- Write code to define a method
- Access the member variables of a class using the operator
- Write code to create and initialize an object
- Use the this keyword to access the “current” object
- Use of access modifiers
- Write code to invoke a method of a particular object
- Write class constructors and invoke particular constructors using keyword new with arguments
- Understand the use of the package and import statements for library access
- Use the Java Application Programming Interface (API) online documentation

Java Methods

- Java Methods
- Calling your Java Methods
- Passing Values to Methods
- Multiple Method Parameters

Java Classes

- Writing your own Java Classes
- Field Variables
- The Java Class Constructor
- Accessing Class Variables
- More on Java Class Methods
- Java and Inheritance

Java Error Handling

- Error Handling and Exceptions

- Stack Trace
- Handling Logic Errors in Java

Dealing with Text Files in Java

- Open and Read a Text File in Java
- Write to a Text File in Java

Java Project

Java and Databases

- Java and Databases
- Creating a Database with Java
- Adding Records to Table
- SQL Commands
- Connect to a Database with Java code
- Connecting to the Table
- Update a Record
- Add a New Record
- Save a New Record
- Delete a Record from a Database