

Certification in

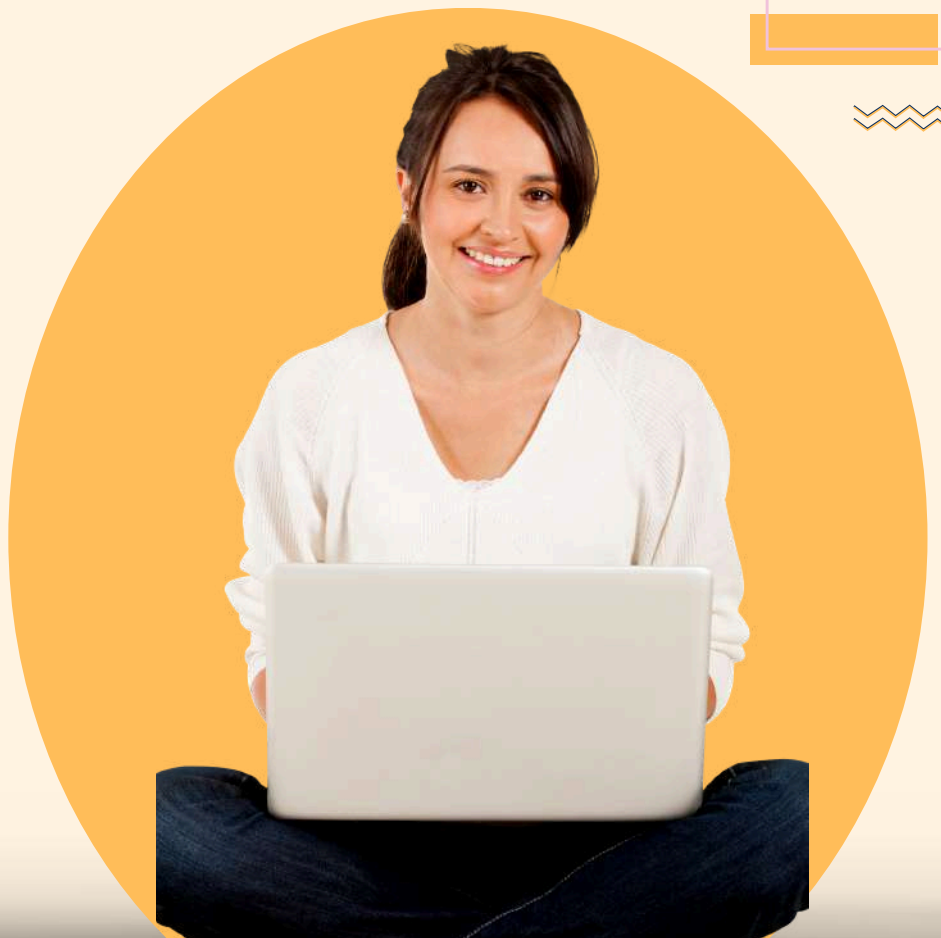
# Java Programming

**(1.5 MONTH)**



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# Concept



**JAVA**

## Introduction

- History and Features of Java, Java development kit
- Java Application Programming Interface
- Java Virtual Machine, Java Program Structure

## Classes

- The class object and its attributes, class methods
- Accessing object methods, method overloading
- Instantiating objects from a class, constructors
- This keyword, super keyword
- Types of classes, scope rules, access modifiers, constants
- Static members of a class, garbage collection

## Classes

- Derived Class Objects, Inheritance and Access Control,
- Default Base Class Constructors, this and super keywords.
- Abstract Classes and Interfaces:
- Abstract Classes, Abstract Methods.

## Interfaces

- What Is an Interface?
- How Is an Interface Different from an Abstract Class?
- Multiple Inheritance, Defining an Interface,
- Implementing Interfaces. is an interface

## Exceptions

- Catching Java Exceptions,
- Catching Run-Time Exceptions
- Handling Multiple Exceptions
- The finally Clause, The throws Clause
- Built-in Exceptions in Java.

## **Multithreading**

- Thread Creations, Thread Life Cycle, Life Cycle Methods
- Synchronization, wait(), notify(), notifyAll() methods
- Inherit Handling Pop-ups and Alerts

## **Packages**

- Introduction to Predefined Packages
- User Defined Packages, Access Specifiers
- Java Built-in Packages, Array Class, String Class.

## **• Introduction to JFC and Swing**

- Features of the Java Foundation Classes,
- Swing API Components, Component Class,
- Containers and Panels, Labels, Buttons,
- Radio Buttons, Check Boxes,
- Text-Entry Components, Menus.

## **• Layouts and Event Handling**

- Flow Layout, Grid Layout, Border Layout.
- Delegation Event Model, Events, Event Classes
- Event Listener Interfaces
- Using Delegation Event Model, Adapter Classes.

## **• Advanced Swing Controls and JDBC**

- JScrollPane, Lists and Combo Boxes
- Colors and File Choosers, Tables and Trees, JTabbedPane.
- JDBC: Introduction, JDBC Architecture
- JDBC Drivers, java.sql Package, Using Statement
- PreparedStatement, CallableStatement, ResultSet.