Online Live Training

Java Developer

Join the certified courses from Prutor.AI, IIT Kanpur this Summer, and get the opportunity to utilize your summer vacation by learning new technology at the comfort of your home.

This online live training program is designed in such a way that it makes learning by building projects super easy for you.

For applying for a job Java certificate is considered one of the most needed certifications.

Training Highlights

- Learn from home
- Certificate of Training
- Online Live Classes
- Faculty Support
- 4 weeks of training
- Doubt clearing
- Syllabus
- 2 weeks of project work

How will your training work?

- Attend Online Classes
- Learn with Hands-on practical
- Do the project work
- Give the final quiz
- Get a certificate in Java

What projects you can build?

- Airline Reservation System
- Course Management System
- Electricity Billing System
- e-Healthcare Management System
- Library Management System
- Inventory Management System

Course Curriculum

- Encapsulation
- Inheritance, Is-A, Has-A
- Polymorphism
- JDK, JRE, JVM
- Declare Classes
- Source File Declaration Rules
- Class Declarations and Modifiers
- Concrete Subclass

- Declare Class Members
- Access Modifiers
- Nonaccess Member Modifiers
- Constructor Declarations
- Variable Declarations
- Declaring an Interface
- Declaring Interface Constants
- Overridden Methods
- Overloaded Methods
- Reference Variable Casting
- Implementing an Interface
- Overloaded Constructors
- Statics
- Static Variables and Methods
- Coupling and Cohesion
- Assignment Operators
- Casting Primitives
- Using a Variable or Array Element That Is Uninitialized and Unassigned
- Local (Stack, Automatic) Primitives and Objects
- Passing Variables into Methods
- Passing Object Reference Variables
- Does Java Use Pass-By-Value Semantics?
- Passing Primitive Variables
- Array Declaration, Construction, and Initialization
- Declaring an Array
- Constructing an Array
- Initializing an Array
- Handling Exceptions
- Catching an Exception Using try and catch
- Using finally
- Propagating Uncaught Exceptions
- Defining Exceptions
- Exception Hierarchy
- Handling an Entire Class Hierarchy of Exceptions
- Exception Matching
- Exception Declaration and the Public Interface

- Rethrowing the Same Exception
- Common Exceptions and Errors
- Defining, Instantiating, and Starting Threads
- Defining a Thread
- Instantiating a Thread
- Starting a Thread
- The Thread States and Transitions
- Thread States
- Preventing Thread Execution
- Sleeping
- Thread Priorities and yield()
- Synchronizing Code
- Synchronization and Locks
- Thread Deadlock
- Thread Interaction
- Using notifyAll( ) When Many Threads May Be Waiting
- Introduction to File class
- ByteSteam and Character Stream
- Serialization with Java IO
- Overriding hashCode() and equals()
- Overriding equals()
- Overriding hashCode()
- Collections
- So What Do You Do with a Collection?
- List Interface
- Set Interface
- Map Interface
- Queue Interface
- Using the Collections Framework
- ArrayList Basics
- Autoboxing with Collections
- Sorting Collections and Arrays
- Navigating (Searching) TreeSets and TreeMaps
- Other Navigation Methods
- Polymorphism and Generics
- Introduction to JDBC
- Architecture of JDBC
- Role of Driver Manager
- Understanding JDBC Driver Types

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