

AI + Generative AI

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Java with AI Professional - 4 Months

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Ministry of Skill Development, Government of India.

Java with AI - 4 Months

A job oriented course in today's Web World

Duration:- 4 Months

Intro & Data Types

- ★ History and Features of Java
- ★ JDK, JRE, and JVM
- ★ Data Types
- ★ Operators
- ★ Conditional and Looping
- ★ Array & String

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Methods & I/O

- ★ Methods in Java
- ★ Java Main Method
- ★ Return type in Java
- ★ I/O Package
- ★ flush() and close()
- ★ Streams & Scanner

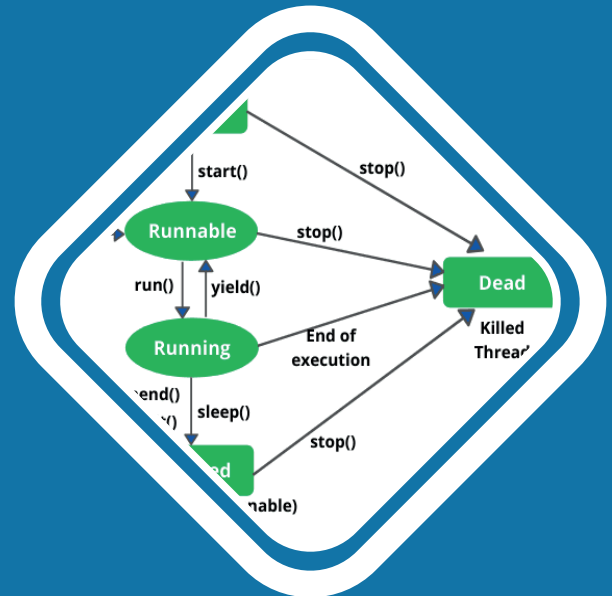
OOPS Concepts & Object

- ★ OOPS Programming Concept
- ★ Defining Class & Object
- ★ Constructor & Destructor
- ★ Inheritance
- ★ Polymorphism
- ★ Encapsulation



Packages & Thread

- ★ User & Pre-Defined Packages
- ★ Java multithreading
- ★ Thread scheduler
- ★ Pausing thread execution
- ★ Calling run() Method
- ★ Inter-thread Communication



File & Exceptional Handling

- ★ File I/O basics
- ★ Working with FileReader
- ★ Working with FileWriter
- ★ Types of Exceptions
- ★ Handling Exceptions
- ★ Throwing Exceptions

Java Database Connectivity

- ★ JDBC Drivers
- ★ Connectivity with MySQL
- ★ Driver Manager
- ★ Types of JDBC statements
- ★ Database Metadata, Resultset Metadata
- ★ ResultSet, types of ResultSet



Servlet & Applet

- ★ Servlet API Classes and Interface
- ★ Servlet Life Cycle
- ★ Servlet Streams
- ★ Graphics in Applet
- ★ Event Handling
- ★ Painting in Applet



AWT & Events

- ★ Event Handling
- ★ Form Components Classes
- ★ Menu Item & Menu
- ★ Panel & Dialog
- ★ ActionListener
- ★ MouseListener

JSP

- ★ Basics of JSP
- ★ Life cycle of JSP
- ★ JSP in NetBeans
- ★ Directive Elements
- ★ Exception Handling
- ★ Action Elements



Java Networking

- ✧ Networking Concepts
- ✧ Socket Programming
- ✧ URL Class
- ✧ URLConnection Class
- ✧ HttpURLConnection
- ✧ InetAddress Class



Hibernate

- ✧ HB Architecture
- ✧ HB using XML
- ✧ Inheritance Mapping
- ✧ Hibernate Mapping
- ✧ Tx Management
- ✧ Hibernate Caching

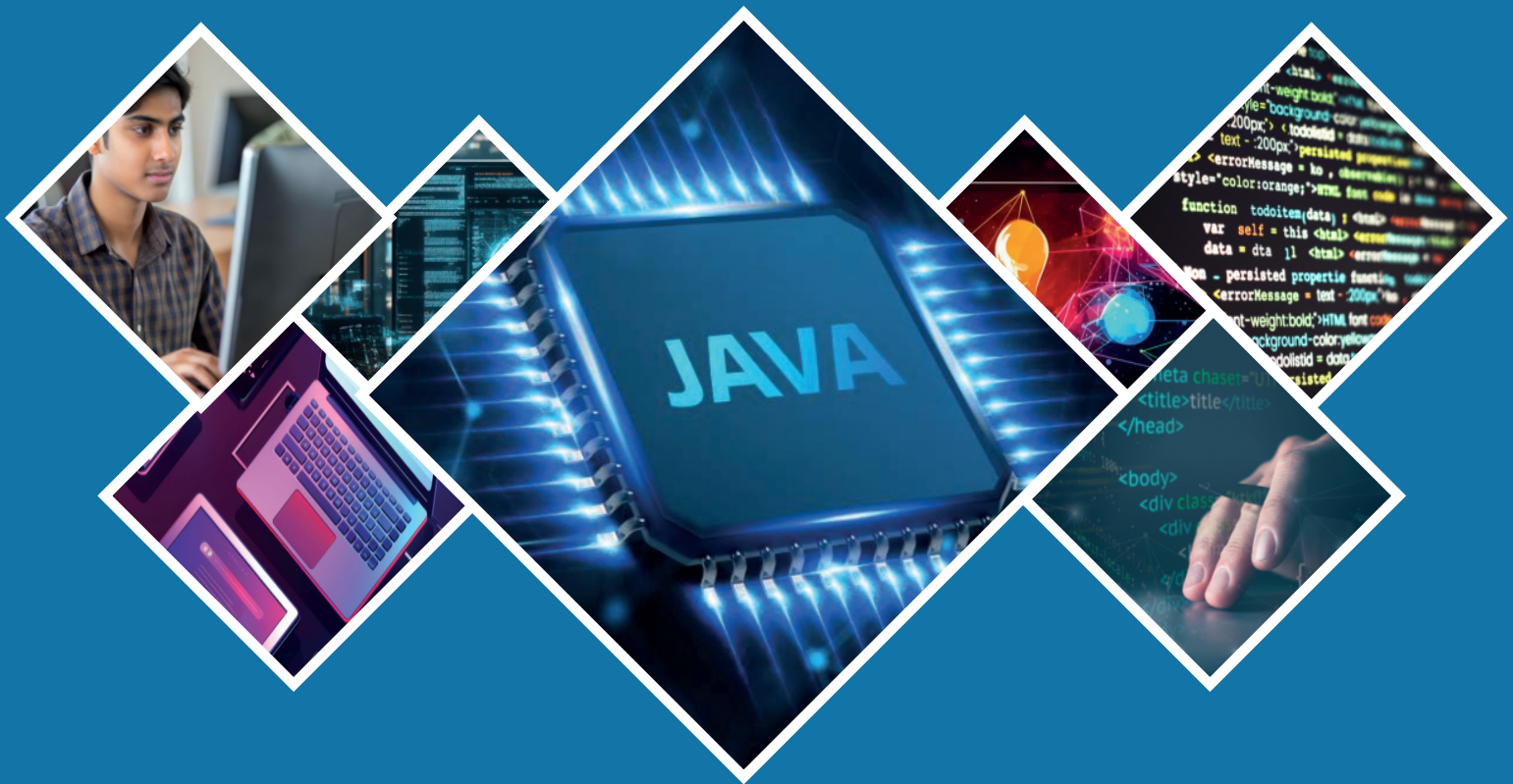
Spring

- ✧ What is Spring
- ✧ Spring Modules
- ✧ Spring in NetBeans
- ✧ Dependency Injection
- ✧ Spring MVC
- ✧ CRUD Example



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Open AI



DeepSeek



Cursor



GitHub Copilot



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