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Thundercube Pvt. Ltd.





Full Stack Development Course

Teaching Languages 💵 हिंदी English



mongoDB













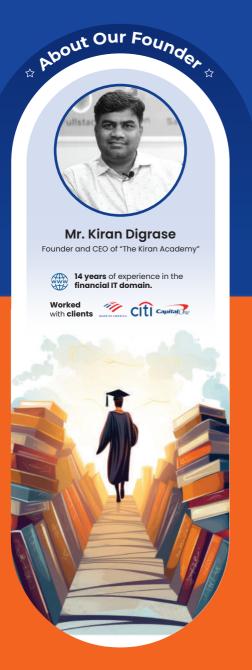












Why our Course?





Highest Salary





738+ Hiring Partner



Industry Experts



100% Placement Assurance

Our Success Journey

2014

We Become "The Kiran Academy" From "Java By Kiran"

2020

Opened our 3rd Branch at Warje, Pune.

2022 Opened our 4th Branch at Deccan, Pune.

Opened our 5th Branch at Chatrapati Squar, Nagpur.

About us

Vision

training to students & help them get placed in the company.

Our Mission

We empower individuals to up-skill for IT software company. We provide comprehensive Industry focused live training.

- 1. Contact us through our website or visit to the institute
- 2. Fill out the registration form & career counseling
- Take admission & collect admission kit
- 4. Join WhatsApp broadcast message group
- 5. Join our learning portal

- 6. Attend online/classroom sessions
- 7. Take as many mock tests as you need
- 8. Prepare for the interview alongside a grooming session
- 9. Participate in job interviews & engage in interview rounds
- 10. Get placed & secure a job offer









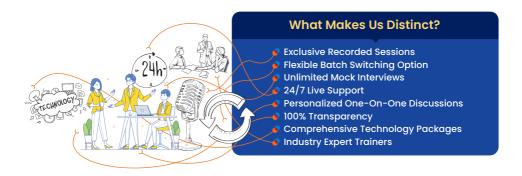


—Common Features—

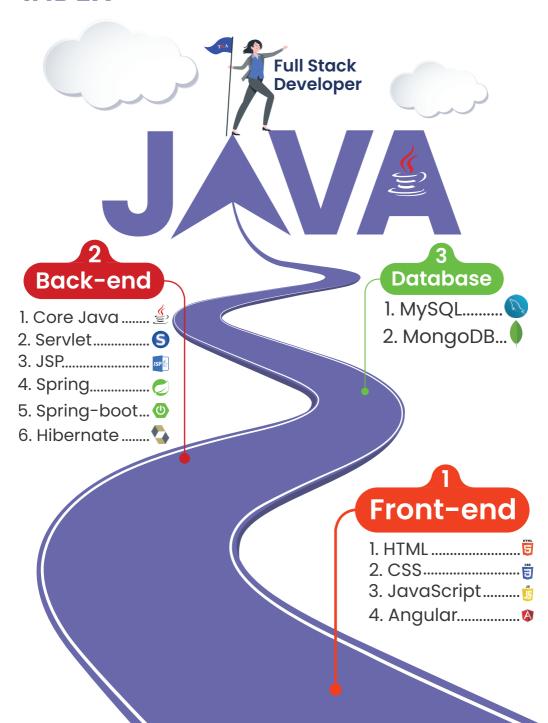








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Front-end / HTML & CSS

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- HTML Introduction
- HTML Document Structure

HTML Syntax



2. Text Formatting

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- Paragraphs ()
- Line Breaks (
)& Horizontal Rules (<hr>)
- All Basic Tags

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- List Items ()
- Un-ordered Lists ()

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- URLs & Paths
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Adding Comments

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• Linking External CSS (<link>)



1. Introduction to CSS

- What is CSS and its role in web development.
- Inline, internal, and external CSS.
- CSS syntax and basic structure.

2. CSS Selectors & Properties

- Understanding CSS selectors
- Applying styles using element, class & ID selectors
- Changing text and background colors
- Adjusting font properties (size, family, weight)

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- · Adjusting border width and color
- Creating decorative borders
- · Adding rounded corners to elements

4. CSS Margins and Padding

- Exploring margin properties for spacing control
- Setting margins for individual sides
- Using shorthand margin notation for efficiency
- Creating spacing between elements
- Combining Margin and Padding

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- Choosing font families & font stacks
- · Adjusting font size, weight, style, and color

6. CSS Tables

- Styling HTML tables and their elements
- · Setting borders and spacing for table cells
- · Alternating row colors for better readability

7. CSS Background & Images

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1. Introduction to JavaScript

- Introduction to JavaScript
- Role in web development.
- Setting up a basic HTML file & adding JavaScript.
- Variables, data types, and basic operations.
- Control structures: if statements & loops (for, while).
- Introduction to functions and their usage.

2. Variables and Data Types

- Declaring variables
- Primitive data types

3. Control Flow

- Conditional statements (if, else if, else)
- Switch statements
- Loops (for, while, do...while)
- Break and continue statements.

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- Parameters and arguments
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- Introduction to the (DOM)
- Selecting and modifying DOM elements

6. Using Popup Boxes

- Alert boxes
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- Prompt boxes



Angular & TypeScript



1. Introduction to TypeScript

- Why learn TypeScript?
- Differences between JavaScript and TypeScript
- Advantages of TypeScript
- Disadvantages of TypeScript
- Environmental setup (Node.js, TypeScript)
- Basic syntax

•Identifiers •Keywords •Comments

2. TypeScript Fundamentals

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• number, string, boolean, void, null, undefined

2. Type Assertions Variables

- Inferred Type Global Scope Class Scope Local Scope
- 3. Operators
- Arithmetic Logical Relational Bitwise
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- Structure of Angular Projects

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- Class Bindina Style Binding
- Property Binding
- 1. Event Binding
- (click), (change), (keyup), (keydown)Mouse Events
- Two-Way Binding
- ngStyle

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- Structural Directives (nglf, nglf else, ngFor)

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- Programmatic Routing
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- naForm Directive
- Bootstrap Grid System
- ngValue Directive

- Using the Form Control Class
 ngSubmit Directive





Back-end

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1. Introduction to Java

- Brief history and importance of Java
- How Java fits into the world of programming languages
- Benefits and features of Java

2. Setting Up Development Environment

- Installing JDK (Java Development Kit)
- Configuring the PATH environment variable
- IDE's like Eclipse
- Eclipse keyboard shortcuts

3. Foundations of Java

- Data types
- User-defined variables
- Variables

Methods

- Operators
- Creating classes
- Control statements Loop structures
- Creating objects
- Practical use cases
- Object class
- & real-world examples

4. Core Concept

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- JDK and JRE
- Static Block
- JVM

Company use cases

- TIL.
- & real time examples

5. Logic Building

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Class communication

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- Abstraction
- Inheritance
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- & real-life examples

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- Abstract
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- Output stream.
- data to files Input stream
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- Understanding exceptions & errors
- Handling exception
- Throws Finally
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 Thread life cycle
- Creating & managing threads
- Demon thread & non-demon thread
- Extending thread class
- Useful methods
- Implementing runnable interface
- Company scenarios & real-life examples

12. Garbage Collection (GC)

- Memory management
- Demon thread concept
- Importance of finalize() method
- System.gc() & runtime.gc()

13. Utility Classes

- String class
- · String manipulation and formatting
- StringBuffer
- StringBuilder
- Wrapper classes
- Math class
- Arrays class
- Company use cases and real time examples

14. Collections Framework

- Introduction to collection framework
- Interfaces of collection framework



Frequently Used Classes of Collection Framework

1. ArrayList 4. HashSet 7. HashMap 10. HashTable 2. Vector 5. TreeSet 8. ТгееМар 3. Linkedlist 6. LinkedHashSet 9. LinkedHashMap

- Collections utility class
- Introduction to generics
- Importance and implementation of generics
- Data structure using collection
- Auto boxing
- Comparator and comparable
- Iterators
- forEach loop
- forEach() methods
- Company use cases and real time examples

15. Java 8 features

- Lambda expressions
- Company use case of lambda expressions
- functional interfaces
- Default and static methods in Interface
- Stream API with collections
- Date and time API
- Company use cases and real time examples



Introduction to Advance Java Concepts



Advance Java

1. Introduction to Advanced Java Concepts

- Introduction to advanced Java and its significance
- Understanding the need for advanced features & libraries

2. Java Database Connectivity (JDBC)

- JDBC architecture and drivers
- Connecting to databases (MySQL, Oracle, etc.)
- Executing SQL queries using Java
- Statements & prepared statements
- Handling resultSets
- Interview questions practices

- 3. Java Servlets.....
- Introduction of Servlet
- Servlet lifecycle and request processing
- Handling forms and user inputs
- Session management
- Integration with database
- Interview questions practice

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- Understanding MVC architecture
- Implementing MVC with servlets and JSP
- Developing a complete web application
- Solving company's use cases
- Separation of Layers: Models, Views and Controllers (Industrial)
- Interview questions practice

5. Java Server Pages (JSP)......



- Introduction to JSP and its advantages
- JSP architecture and page directives
- Scripting elements: <% %> and <%=%>
- Standard actions: jsp:include, jsp:forward, etc.
- JSTL (JavaServer pages standard tag library)
- Interview questions practice

6. Web Services and APIs

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- JSON

7. Hibernate

- Introduction to ORM
- Hibernate framework overview
- Mapping entities to database tables
- Operations using hibernate
- Inbuilt function of hibernate
- Criteria & query
- HQL (Hibernate query language)
- Solving company use cases
- Interview questions practice (Industrial)

8. Spring Framework



- Introduction to Spring
- Dependency injection and inversion of control (IoC)
- Spring annotations
- Database integration with spring (Industrial)
- Aspect-oriented programming (AOP) with spring
- Interview questions practice

9. Spring Boot and Microservices..



- Creating spring boot applications
- Dependency injection
- Spring boot annotations
- Auto-configuration and starter dependencies
- HTTP methods
- Spring boot hibernate integration
- Building RESTful APIs with spring boot
- Solving company use cases
- Introduction to microservices architecture
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- Returning plain text or JSON responses.
- API testing using POSTMAN
- application.properties & configuration (Industrial)
- Hands-on practice with project (Industrial)
- Interview questions practice

10. Model-View-Controller (MVC) Spring Boot

- Understanding MVC architecture
- Implementing MVC with spring boot
- Developing web application
- Separation of Layers:
 - Models, Views and Controllers (Industrial)
- Interview questions practice

11. Project for Resume



01 Project Building **(a)**



03 End-to-End Module **Wise Preparation**



12. Advanced Java Tools and Libraries

- Apache maven for project build management
- Tomcat server
- Git & GitHub tracking tool
- Unit testing
- Postman

7. Advanced SQL Concepts

- Grouping and Aggregating Data
- GROUP BY Statement HAVING Clause
- Subqueries and EXISTS Operator
- Subqueries
- EXISTS Operator
- Comparison with ANY and ALL Operators ANY Operator
- ALL Operator
- Joining Tables
 - INNER JOIN
- LEFT JOIN (LEFT OUTER JOIN)
- RIGHT JOIN (RIGHT OUTER JOIN)
- FULL JOIN (FULL OUTER JOIN)

Database



1. Introduction

- Definition and importance of databases.
- Overview of SQL (Structured Query Language)

2. Database Fundamentals

- Explanation of databases as structured data repositories
- Types and applications of databases (relational, NoSQL, etc.)
- Role of databases in various industries

3. SQL Essentials

- Introduction to SQL as the language for managing databases
- Categories of SQL statements (DDL, DML, DQL)
- Significance of SQL in data manipulation and retrieval

4. Installation of MySQL

- Steps to install MySQL
- Configuring database server settings
- Command-line and graphical tools for MySQL

5. Exploring SQL Statements

- Data Definition Language (DDL)
- CREATE statement
 - ALTER statement
- TRUNCATE statement

DFLFTF statement

- DROP statement
- RENAME statement
- Data Manipulation Language (DML)
 - UPDATE statement INSERT statement
- Data Query Language (DQL)
- SELECT statement

6. SQL Query Basics

Data filtering

- ORDER BY
- Logical operators
- Handling NULL values.
- LIKE operator & wildcard characters
 Aggregate functions
- IN and BETWEEN operators
- String, Date & Time functions



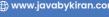




















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