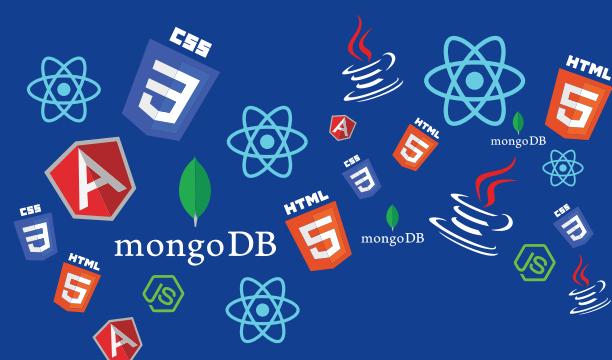


JAVA Full Stack Development Course



Teaching Languages

हिंदी

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TheKiranAcademy



Coding

DEVELOPERS

About Our Founder and Top Trainers



Mr. Kiran Digrase

Founder and CEO of "The Kiran Academy"



14 years of experience in the financial IT domain.

Worked with clients



About us

Vision

We bridge the gap by providing skilled professional 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.

Why our Course?



Our Success Journey

2014

Established "Java By Kiran" institute at Karve Nagar, Pune.

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

2018

2020

Opened our 2nd Branch at Pimpri Chinchwad

Opened our 3rd Branch at Warje, Pune.

2021

2022

Opened our 4th Branch at Deccan, Pune.

Opened our 5th Branch at Chatrapati Square, Nagpur.

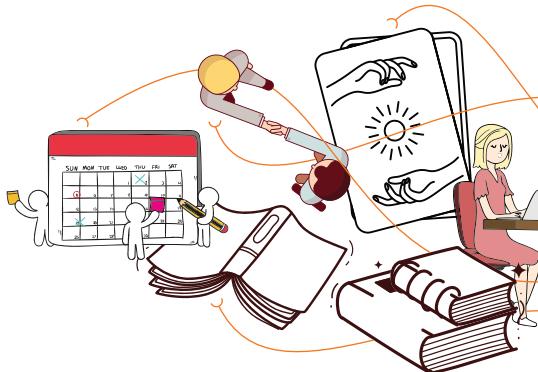
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3. Take admission & collect admission kit
4. Join WhatsApp broadcast message group
5. Join our learning portal
6. Attend online/classroom sessions
7. Take as many mock tests as you need
8. Prepare for the interview alongside a grooming session
9. Participate in job interviews & engage in interview rounds
10. Get placed & secure a job offer

Our Certifications



Common Features

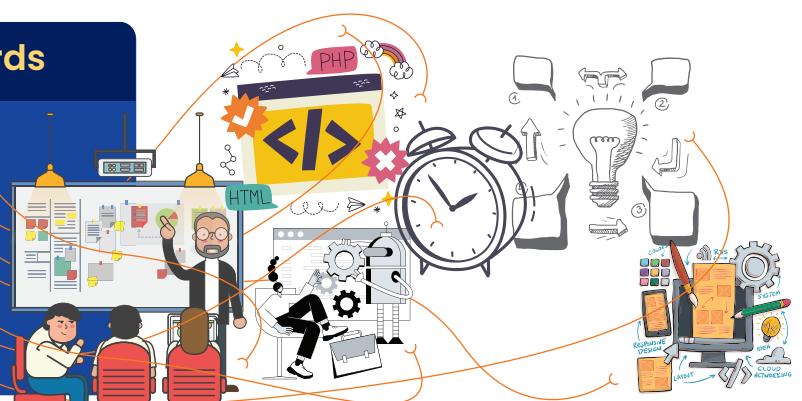


Test, Assessments & Mocks

- Topic-wise Weekly Test
- Topic-wise Assessments
- Mock Interview Preparation
- One-On-One Discussion
- Interview Feedback On Emails

Best Practices & Coding Standards

- Naming Conventions
- Code Formatting & Style
- Writing Maintainable & Readable Code
- Code Reusability
- Code Auto-generation
- Real Time Scenarios
- Problem Statements & Solutions



Soft Skills

- 360° Development
- Resume Building
- Enhancing Confidence
- Logic Building Session
- English Communication



Debugging & Troubleshooting

- Use of Debugging Tools
- Identifying & Fixing Common Errors
- Handling Industrial Scenarios



What Makes Us Distinct?

- Exclusive Recorded Sessions
- Flexible Batch Switching Option
- Unlimited Mock Interviews
- 24/7 Live Support
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- 100% Transparency
- Comprehensive Technology Packages
- Industry Expert Trainers

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2. MongoDB... 🍃

1 Front-end

1. HTML HTML
2. CSS CSS
3. JavaScript JS
4. Angular..... A

1. HTML Basics

- HTML Introduction
- HTML Document Structure



2. Text Formatting

- Headings (`<h1>` to `<h6>`)
- Line Breaks (`
`)
- & Horizontal Rules (`<hr>`)
- Paragraphs (`<p>`)
- All Basic Tags

3. Lists

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

4. Links and Anchors

- Hyperlinks (`<a>`)
- URLs & Paths
- Link Text
- Link Targeting

5. Marquee Element

- Element Introduction & Attributes
- Creating Scrollable Text & Images

6. Images

- Image Tag (``)
- Image Source (`src` Attribute)
- Image Dimensions (Width and Height Attributes)
- Alt Text (`alt` Attribute)

7. Forms

- Form Tag (`<form>`)
- Input Fields (`<input>`)
- Textareas (`<textarea>`)
- Select Menus (`<select>`)

8. Div and Spans

- Block-level Elements (`<div>`)
- Inline Elements (``)

9. Iframe

- Embedding Videos
- Embedding Maps
- Embedding Social Media Feeds
- Displaying External Content
- Displaying Advertisements

10. HTML Comments

- Adding Comments

11. CSS Linking

- Linking External CSS (`<link>`)

Introduction

to CSS



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)

3. CSS Borders

- Exploring different border styles
- 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

5. CSS Fonts

- Customizing text styles with font properties
- 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

- Setting background color and images
- Controlling background repeat & position
- Creating image galleries with CSS





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.

4. Functions

- Declaring functions
- Parameters and arguments
- Return statements

5. DOM Manipulation

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

6. Using Popup Boxes

- Alert boxes
- Confirm boxes
- 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

1. Data Types in TypeScript

- number, string, boolean, void, null, undefined

2. Type Assertions Variables

- Inferred Type • Global Scope • Class Scope • Local Scope

3. Operators

- Arithmetic • Logical • Relational • Bitwise
- Assignment • Ternary/Conditional

3. Control Statements

- If Statement • If-else Statement • Else-if and Nested if
- Switch Statement

4. Loops

- While Loop • For Loop • Do-while Loop

5. Functions

- Optional Parameter Functions
- Default Parameter Functions
- Anonymous Functions
- Rest Parameter Functions

3. Advanced TypeScript

- Arrow Functions (Fat Arrow Functions) • JSON Objects
- TypeScript Arrays • Array of Objects
- Push & pop Methods • Class and Object Properties
- Splice Method • Constructors
- Slice Method • Interfaces
- forEach Method • Inheritance



1. What is Angular?

- Angular Version History
- Architecture of Angular Apps
- Setting up the Environmental Setup
- Structure of Angular Projects
- Creating Components Manually
- Creating Components through CMD
- String Interpolation

2. Data Binding, Handling Events & Directives

- String Interpolation vs Property Binding
- Property Binding
- Class Binding
- Style Binding

1. Event Binding

•(click), (change), (keyup), (keydown) • Mouse Events

- Two-Way Binding
- Directives
- Structural Directives (ngIf, ngIf else, ngFor)
- ngStyle
- ngClass

3. Component Interaction, Input & Output Properties, Pipes, Services & Dependency Injection

1. Component Interaction

- @Input() and @Output() Decorators

2. Pipes

- Inbuilt Pipes
- Creating Custom Pipes
- @Pipe Decorator

4. HTTP Services and Observables

- What is a Service?
- Dependency Injection in Angular
- Introduction to HTTP
- Error Handling
- Introduction to Observables
- Injectable Decorator
- Connecting to the Backend
- Using HTTP Services
- GET, POST, PUT, DELETE

5. Routing in Angular

- What is Routing?
- Configuring Routes
- Using the Router-outlet Tag
- Routing Using Router-link Directive
- Programmatic Routing
- Sending Data through Routing
- Lazy Loading Concepts

6. Bootstrap and Template-Driven Forms

- Overview of Bootstrap
- Bootstrap Grid System
- Using the Form Control Class
- Validation of Template-Driven Forms
- ngForm Directive
- ngValue Directive
- ngSubmit Directive
- FormControl



Back-end

Core Java



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
- Variables
- Creating classes
- Methods
- Creating objects
- Object class
- User-defined variables
- Operators
- Control statements
- Loop structures
- Practical use cases & real-world examples

4. Core Concept

- Package and Import
- JDK and JRE
- JVM
- JIT
- Class communication
- Instance Block
- Static Block
- Company use cases & real time examples

5. Logic Building

- Programs on string
- Programs on array
- Program on control statements

6. Object-Oriented Programming (OOP)

- Classes and objects.
- Encapsulation.
- Inheritance
- Polymorphism
- Abstraction
- Company scenarios & real-life examples

7. Access Specifier / Modifier

- Private
- Default
- Protected
- Public
- Company scenarios & real-life examples

8. Useful Keywords

- Static
- Synchronized
- Final
- Abstract
- Super and this
- Company Scenarios & real-life examples

9. Input/Output (I/O) Streams

- Reading & writing data to files
- Output stream.
- Input stream
- Company scenarios & real-life examples

10. Exception Handling

- Why exception handling
- Catch
- Understanding exceptions & errors
- Throw
- Handling exception
- Throws
- Exception hierarchy
- Finally
- Types of exception
- User defined exception
- Try
- Company scenarios & real-life examples

11. Multithreading

- Thread Introduction
- 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

↳ List ↳ Set ↳ Map

● Frequently Used Classes of Collection Framework

- | | | | |
|---------------|------------------|------------------|---------------|
| 1. ArrayList | 4. HashSet | 7. HashMap | 10. HashTable |
| 2. Vector | 5. TreeSet | 8. TreeMap | |
| 3. LinkedList | 6. LinkedHashMap | 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



Introduction to 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

4. Model-View-Controller (MVC) Servlet

- 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

- Developing RESTful web services
- 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
- Controller and REST endpoints (Industrial)
- 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

02 Project Explanation for Placement

03 End-to-End Module Wise Preparation

04 Face to Face Interview 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
- DROP statement
- RENAME statement

▪ Data Manipulation Language (DML)

- INSERT statement
- UPDATE statement
- DELETE statement

▪ Data Query Language (DQL)

- SELECT statement

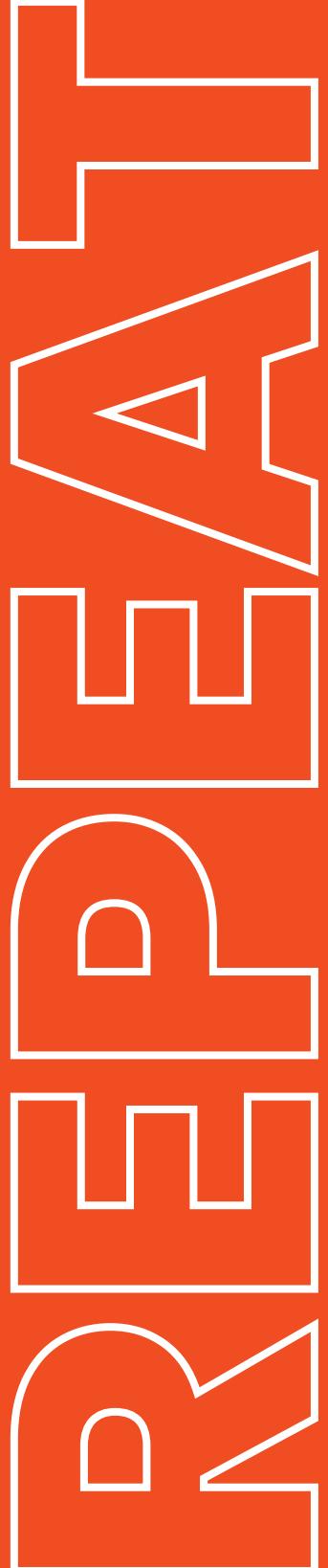
6. SQL Query Basics

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

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