ABHISHYANDH GLOBAL SOLUTIONS

Aditya Enclave, Nilgiri Block, 6th Floor, 605A,
Beside Ameerpet Metro Station, Ameerpet- Hyderabad.

☎ 040-66858189 🟢 8897830910

https://abhishyandh.co.in

✉ info@abhishyandh.co.in

FULL STACK JAVA

Java Full Stack Development Course

Topics	Subtopics
1. Fundamentals of Java Programming	- Introduction to Java - Java Programming Basics (Syntax, Variables, Data Types) - Operators and Expressions - Control Flow Statements (If, Switch, Loops) - Arrays and Strings - Functions and Methods - Java Virtual Machine (JVM) Basics - JVM Architecture - Java Memory Management (Heap, Stack) - Garbage Collection
2. OOP Concepts	- Classes - Objects - Inheritance - Polymorphism - Encapsulation - Abstraction - Constructors - Interfaces
3. Core Java Concepts	- Exception Handling (Try, Catch, Finally, Throw, Throws) - Collections Framework (List, Set, Map) - Generics - File I/O (InputStream, OutputStream, FileReader, FileWriter) - Multithreading (Threads, Runnable, Synchronization) - Lambda Expressions and Streams (Java 8)
4. Advanced Java	- Reflection API - Annotations - Java 8 Features (Default Methods, Optional, Stream API)

Topics	Subtopics
	- Concurrency Utilities (ExecutorService, Future) - Networking (Sockets, URL) - Java Memory Management (Garbage Collection, JVM) - JDBC Concepts (JDBC Drivers, Connection, Statement, ResultSet, PreparedStatement, CallableStatement)
5. Servlets	- Introduction to Servlets - Servlet Lifecycle - Handling HTTP Requests and Responses - ServletConfig and ServletContext - Request Dispatching (RequestDispatcher) - Session Management (Cookies, HttpSession) - Error Handling and Exception Handling in Servlets - Filters and Listeners
6. JSP Concepts	- Introduction to JSP - JSP Lifecycle - JSP Syntax (Directives, Scriptlets, Expressions, Declarations) - JSP Implicit Objects - JSP Standard Tag Library (JSTL) - JSP Custom Tags - JSP and Servlets Integration
7. Spring Boot Framework	- Introduction to Spring Boot - Spring Core (Dependency Injection, Inversion of Control) - Spring MVC (Model-View-Controller) - RESTful Web Services with Spring Boot - Spring Data JPA (Database Integration) - Spring Security (Authentication and Authorization) - Spring Boot Actuator (Monitoring and Management)
8. HTML	- Introduction to HTML - Basic HTML Tags (Headings, Paragraphs, Links, Lists) - HTML Forms and Input Elements - HTML5 Features (Canvas, Audio, Video) - Semantic HTML (Article, Section, Nav) - HTML Tables - HTML Media (Embedding Images, Audio, Video) - HTML Metadata (Meta Tags, SEO Basics) - HTML Links and Navigation - HTML Layouts (Div, Section, Header, Footer) - HTML Scripting (Embedding JavaScript) - HTML Best Practices (Accessibility, Performance)
9. CSS	- Introduction to CSS - CSS Selectors and Properties

Topics	Subtopics
	- Box Model (Margins, Borders, Padding) - Positioning (Static, Relative, Absolute, Fixed) - Flexbox and Grid Layouts - Responsive Design Techniques - CSS Transitions and Animations
10. Bootstrap	- Introduction to Bootstrap - Bootstrap Grid System - Bootstrap Components (Buttons, Cards, Navbars) - Bootstrap Utilities (Spacing, Colors, Borders) - Customizing Bootstrap Themes
11. JavaScript (JS)	- Introduction to JavaScript - Variables, Data Types, and Operators - Control Structures (If, Switch, Loops) - Functions and Scope - DOM Manipulation (Selecting Elements, Event Handling) - Asynchronous JavaScript (AJAX, Fetch API) - ES6 Features (Let, Const, Arrow Functions, Template Literals)
12. MySQL	- Introduction to MySQL - SQL Basics (Select, Insert, Update, Delete) - Joins (Inner Join, Outer Join) - Subqueries and Nested Queries - Data Types and Constraints - Database Design (Normalization, Keys) - Indexing and Query Optimization - Transactions (Commit, Rollback)