🔥 30-Day Java Learning Plan

Here's a **30-Day Java Roadmap** from **beginner to advanced**, including **resources in both English and Hindi**! 🚀 🔥

📅 **30-Day Java Roadmap - From Beginner to Advanced** 🔥

This roadmap will help you **learn Java from scratch** and master it within 30 days! 🏆

🔥 **Week 1: Java Fundamentals (Basics)**

- **Day 1:** Install JDK & IntelliJ/Eclipse, Write First Java Program (Hello, World!)

- **Day 2:** Variables, Data Types, Type Casting

- **Day 3:** Operators (Arithmetic, Relational, Logical, Bitwise)

- **Day 4:** Conditional Statements (if-else, switch-case)

- **Day 5:** Loops (for, while, do-while)

- **Day 6:** Functions & Recursion (return, void, overloading)

- **Day 7: Mini Project:** Simple Interest Calculator 💰

🔥 **Week 2: Object-Oriented Programming (OOPs)**

- **Day 8:** Classes & Objects (new, Constructors, Methods)

- **Day 9:** Encapsulation & Access Modifiers (private, public, protected)

- **Day 10:** Inheritance (extends keyword)

- **Day 11:** Polymorphism (Method Overloading & Overriding)

- **Day 12:** Abstraction & Interfaces

- **Day 13:** Exception Handling (try-catch, throws, finally)

- **Day 14: Mini Project:** Student Management System 🎓

🔥 **Week 3: Data Structures & Algorithms (DSA)**

- **Day 15:** Arrays (1D & 2D)

- **Day 16:** ArrayList & LinkedList

- **Day 17:** Stacks & Queues (Stack, Queue, Deque)

- **Day 18:** HashMaps & HashSets

- **Day 19:** Searching & Sorting Algorithms

- **Day 20:** Recursion Problems in Java

- **Day 21: Mini Project:** Library Management System 📚

🔥 **Week 4: Advanced Topics & Real-World Projects**

- **Day 22:** File Handling (Read & Write in Files)

- **Day 23:** JDBC (Java Database Connectivity - MySQL)

- **Day 24:** Java Collections Framework (List, Set, Map)

- **Day 25:** Multithreading & Concurrency (Thread, Runnable)

- **Day 26:** Spring Boot Basics for Web Development

- **Day 27:** GUI Development (Swing & JavaFX)

- **Day 28: Project:** Build a Simple Banking System 🏛️

- **Day 29: Final Project:** Develop a Mini E-Commerce App 🛒

- **Day 30:** Review, DSA Practice & Next Steps 🚀

📚 **Recommended Resources (English & Hindi)**

📖 **English Resources**

- **Java Documentation:** https://docs.oracle.com/javase/tutorial/

- **Java for Beginners (W3Schools):** https://www.w3schools.com/java/

- **Java Full Course (Bro Code - YouTube):** https://www.youtube.com/watch?v=xk4_1vDrzzo

- **Data Structures in Java (CodeWithHarry - English):** https://www.youtube.com/watch?v=KkMdJ7cDqVQ

- **Java DSA Practice:** https://leetcode.com/

📖 **Hindi Resources**

- **Java Beginner Course (Apna College - Hindi):** https://www.youtube.com/watch?v=ntLJmHOJ0ME

- **Java in One Shot (CodeWithHarry - Hindi):** https://www.youtube.com/watch?v=UmnCZ7-9yDY

- **Java DSA (Love Babbar - Hindi):**
  https://www.youtube.com/playlist?list=PLDzeHZWIZsTqBmRGnsCOGNDG5FY0G04Td

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💡 **After 30 Days, What Next?**

✅ Start solving **DSA problems** using Java on LeetCode & CodeChef
✅ Learn **Advanced Java** (Spring Boot, Hibernate, Microservices)
✅ Build **real-world projects** (Web Apps, Mobile Apps, AI Integration)

🚀 **Happy Coding! Keep Learning & Keep Growing!** 🔥

🔗 **Connect with Me**

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