java challenge

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📅 Week 1 — Java Basics

Day 1: Print *Hello World* and variables

Day 2: Input two numbers, print sum and average

Day 3: Check if even/odd and positive/negative

Day 4: Find largest of three numbers

Day 5: Use for loop to print 1–100

Day 6: Calculate factorial using loop

Day 7: Check if number is prime

🧠 *Mini Challenge:* Find all prime numbers between 1–100

📅 Week 2 — Logic & Loops

Day 8: Reverse a number

Day 9: Check if number is palindrome

Day 10: Generate Fibonacci series

Day 11: Check if Armstrong number

Day 12: Calculate sum of digits

Day 13: Print patterns (⭐ pyramid)

Day 14: Print number pattern (1 22 333)

🧠 *Mini Challenge:* Create pattern using nested loops

📅 Week 3 — Strings & Arrays

Day 15: Reverse a string

Day 16: Check if string is palindrome

Day 17: Count vowels and consonants

Day 18: Remove duplicate characters

Day 19: Find max and min in array

Day 20: Find second largest element

Day 21: Implement bubble sort

🧠 *Mini Challenge:* Sort string alphabetically

📅 Week 4 — OOP & Advanced Topics

Day 22: Create class and object (Student example)

Day 23: Use constructor and `this` keyword

Day 24: Implement inheritance

Day 25: Practice method overloading and overriding

Day 26: Create abstract class

Day 27: Implement interface

Day 28: Handle exceptions (`try-catch`)

Day 29: Read and write files

Day 30: Implement multithreading