

# java challenge

Created

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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

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## JUL 17 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