## 50 Java For-Loop Only Interview Questions

## **Basic For-Loop Logic (115)**

- 1. Print numbers from 1 to 100.
- 2. Print numbers from N to 1 (in reverse).
- 3. Print all even numbers from 1 to N.
- 4. Print all odd numbers from 1 to N.
- 5. Print the sum of first N natural numbers.
- 6. Print the product (factorial) of first N natural numbers.
- 7. Count the number of digits in a number.
- 8. Sum of digits of a number.
- 9. Product of digits of a number.
- 10. Reverse a number (e.g., 123 321).
- 11. Check if a number is a palindrome.
- 12. Check if a number is a prime.
- 13. Print all prime numbers from 1 to N.
- 14. Check if a number is an Armstrong number.
- 15. Print all Armstrong numbers from 1 to 999.

## Pattern Printing (1635)

- 16. Print a square of stars (e.g., 5x5).
- 17. Print a right-angled triangle.
- 18. Print a triangle with numbers:
- 1
- 12
- 123
- 19. Print a triangle with constant numbers:
- 1
- 22
- 333
- 20. Print Floyds Triangle.
- 21. Print a pyramid of stars.

- 22. Print an inverted triangle.
- 23. Print a diamond pattern.
- 24. Print a hollow square.
- 25. Print a pattern with alternating 1s and 0s.
- 26. Print a triangle with increasing odd numbers.
- 27. Print a triangle with increasing even numbers.
- 28. Print Pascals Triangle (basic format).
- 29. Print a checkerboard of 1s and 0s.
- 30. Print a left-aligned triangle with stars.
- 31. Print a right-aligned triangle.
- 32. Print an inverted pyramid.
- 33. Print a half-diamond star pattern.
- 34. Print a V shape with stars.
- 35. Print a pattern of numbers decreasing in each row.

## Number-Based Logic (3650)

- 36. Print Fibonacci series up to N terms.
- 37. Print reverse Fibonacci series.
- 38. Print factorials of numbers from 1 to N.
- 39. Find the GCD of two numbers using loop.
- 40. Find the LCM of two numbers using loop.
- 41. Check if a number is perfect (sum of factors = number).
- 42. Print all perfect numbers from 1 to N.
- 43. Count number of factors of a number.
- 44. Print all factors of a number.
- 45. Check if a number is strong (e.g., 145).
- 46. Print square of numbers from 1 to N.
- 47. Print cube of numbers from 1 to N.
- 48. Print numbers divisible by 3 and 5 between 1 to 100.
- 49. Print sum of series: 1 + 1/2 + 1/3 + ... + 1/N.
- 50. Print numbers in pattern: 1, 4, 9, 16, ... N.