

Pattern Printing – Practice Problems

This practice sheet is designed to strengthen your LOGIC for pattern printing. Do NOT jump to code directly. First, analyze rows, spaces, and symbols for every pattern.

Instructions

- First draw the pattern on paper.
- Count rows and columns.
- Decide spaces, symbols, and conditions.
- Then convert logic into code.

Level 1: Basic Patterns

1. Print a left-aligned right-angled triangle of stars ($n = 5$).
2. Print a right-aligned right-angled triangle of stars.
3. Print an inverted left-aligned triangle.
4. Print a square of stars ($n = 5$).

Level 2: Number Patterns

5. Print a number right-angled triangle.
6. Print a reverse number right-angled triangle.
7. Print a number changing triangle.
8. Print a reverse number changing triangle.

Level 3: Pyramid Patterns

9. Print a full pyramid of stars.
10. Print a full pyramid where each row prints the same number.
11. Print a pyramid of increasing numbers.

Level 4: Hollow Patterns

12. Print a hollow square.
13. Print a hollow right-angled triangle.
14. Print a hollow pyramid.

Level 5: Advanced & Logic Patterns

15. Print a diamond pattern of stars.
16. Print a number diamond pattern.
17. Print an X (cross) pattern of stars.
18. Print a pattern using diagonal logic only.

Tip for Exams & Interviews

If you forget a pattern, do NOT panic. Just remember: Outer loop controls rows, inner loops control columns, spaces control alignment, and conditions control hollow patterns.