

10 Python Loop Questions With Insights

1. Print numbers from 1 to 50

Insight: A basic for-loop builds foundational comfort with iteration order and indexing.

2. Print only even numbers from 1 to 100

Insight: Strengthens understanding of conditional logic inside loops.

3. Find the sum of first N natural numbers

Insight: Helps connect loops with cumulative operations and initialization concepts.

4. Print the multiplication table of a given number

Insight: Shows how loops can generate systematic repetitive output.

5. Count digits in a number without converting to string

Insight: Teaches integer manipulation and reinforces the concept of quotient division.

6. Reverse a number using a loop

Insight: Builds logical thinking by breaking a number into digits and reconstructing it.

7. Check if a number is prime

Insight: Introduces algorithmic thinking and efficiency considerations.

8. Print a right-angled triangle pattern

Insight: Demonstrates using loops for visual output and pattern building.

9. Print a hollow square pattern

Insight: Helps understand nested loops and boundary conditions.

10. Print Fibonacci series up to N terms

Insight: Combines loops with variable updates, teaching sequence generation and logic flow.

