

Loops Practice Questions

Basic (1–7)

1. Print numbers from 1 to 100.
2. Print the first 10 even numbers.
3. Print the sum of first N natural numbers.
4. Print the multiplication table of a number.
5. Find the factorial of a number.
6. Reverse a given integer (e.g., 123 → 321).
7. Print Fibonacci series up to N terms.

Intermediate (8–14)

8. Print a right-angled triangle pattern of stars:

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****
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9. Print a pyramid pattern of stars:

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  *
 ***
*****
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10. Print a number triangle:

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1
12
123
1234
```

11. Find the GCD (HCF) of two numbers.
12. Check if a number is a palindrome (e.g., 121).
13. Print all prime numbers up to N.
14. Find the sum of digits of a number.

Advanced (15–20)

15. Print Pascal's Triangle.
16. Print a hollow square pattern:

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*      *
*      *
*      *
*****
```

17. Print Armstrong numbers between 1 and 1000.
18. Print a butterfly pattern:

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  *      *
 **     **
***    ***
```

```
*****
***   ***
**     **
*       *
```

19. Print Floyd's Triangle:

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1
2 3
4 5 6
7 8 9 10
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20. Print a spiral matrix ($N \times N$).