

● Basic Level (Understand the while loop)

1. Print numbers from **1 to 10** using `while` .
2. Print numbers from **10 to 1**.
3. Print **even numbers** from 1 to 50.
4. Print **odd numbers** from 1 to 50.
5. Print **multiplication table of 5**.
6. Print **Hello Java** 10 times.
7. Print numbers from **1 to n** (user input).
8. Find the **sum of first 10 natural numbers**.
9. Count numbers from **1 to 100**.
10. Print squares of numbers from **1 to 10**.

● Medium Level (Logic Building)

11. Find the **sum of digits** of a number.
12. Reverse a **given number**.
13. Check whether a number is **palindrome**.
14. Find the **factorial** of a number.
15. Count the **number of digits** in a number.
16. Find the **largest digit** in a number.
17. Check whether a number is **prime**.
18. Print all **factors** of a number.
19. Print **Fibonacci series** up to n terms.
20. Find the **LCM** of two numbers.

● Pattern & Control Based

21. Print:

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

22. Print:

```
1  
2 2  
3 3 3  
4 4 4 4
```

23. Print:

```
A
B B
C C C
D D D D
```

24. Print numbers in this pattern:

```
1
2 3
4 5 6
7 8 9 10
```

25. Print:

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

● Tricky / Interview Type

26. Print numbers from 1 to 100, skip multiples of 3.
27. Print numbers until user enters 0.
28. Count how many **even digits** are in a number.
29. Check whether a number is **Armstrong**.
30. Print numbers from 1 to 50, stop when number becomes 37.