1. **Print Numbers 1-10**  
   Write a for loop that prints numbers from 1 to 10.
2. **Sum of First 10 Numbers**  
   Write a for loop to calculate the sum of the first 10 numbers.
3. **Even Numbers 1-20**  
   Write a for loop that prints all even numbers between 1 and 20.
4. **Odd Numbers 1-20**  
   Write a for loop that prints all odd numbers between 1 and 20.
5. **Reverse Counting from 10**  
   Write a for loop that prints numbers from 10 to 1.
6. **Multiplication Table**  
   Write a for loop to print the multiplication table of 5.
7. **Sum of Even Numbers**  
   Write a for loop to calculate the sum of all even numbers from 1 to 20.
8. **Array Elements**  
   Given an array let arr = [1, 2, 3, 4, 5];, write a for loop to print each element.
9. **Sum of Array Elements**  
   Given an array let arr = [1, 2, 3, 4, 5];, use a for loop to calculate the sum of the elements.
10. **Factorial Calculation**  
    Write a for loop to calculate the factorial of a number (e.g., 5!).
11. **Square of Numbers**  
    Write a for loop that prints the square of numbers from 1 to 10.
12. **Count Down by 2**  
    Write a for loop to count down from 20 to 0 in steps of 2.
13. **Fibonacci Sequence**  
    Write a for loop to print the first 10 numbers of the Fibonacci sequence.
14. **Check Prime Numbers**  
    Write a for loop to check if a number (e.g., 29) is a prime number.
15. **Sum of Digits**  
    Write a for loop to calculate the sum of the digits of a number (e.g., 1234).
16. **Reverse an Array**  
    Given an array let arr = [1, 2, 3, 4, 5];, write a for loop to reverse it.
17. **Merge Two Arrays**  
    Write a for loop to merge two arrays into one: arr1 = [1, 2] and arr2 = [3, 4].
18. **Nested Loop Multiplication Table**  
    Write a nested for loop to print the multiplication table from 1 to 10.
19. **Find Maximum in Array**  
    Write a for loop to find the maximum value in an array.
20. **String Reversal**  
    Write a for loop to reverse a string (e.g., "hello" becomes "olleh").
21. **Array Sorting (Bubble Sort)**  
    Implement the bubble sort algorithm using a for loop.
22. **Remove Duplicates in an Array**  
    Write a for loop to remove duplicate values from an array.
23. **Find Factorial Using Recursion**  
    Rewrite the factorial problem using a for loop and recursion.
24. **Matrix Multiplication**  
    Write a nested for loop to multiply two 2D matrices.
25. **Pascal's Triangle**  
    Write a for loop to print the first 5 rows of Pascal's Triangle.
26. **Print Prime Numbers up to 100**  
    Write a for loop to print all prime numbers between 1 and 100.
27. **Count Frequency of Elements in Array**  
    Write a for loop to count the frequency of each element in an array.
28. **Generate Random Array of Numbers**  
    Write a for loop to generate an array of 10 random numbers between 1 and 100.
29. **Transpose of a Matrix**  
    Write a for loop to find the transpose of a 2D matrix.
30. **Check Palindrome**  
    Write a for loop to check if a string is a palindrome.