FOR LOOP

- 1. Write a program in C to display the first 10 natural numbers.
- 2. Write a C program to compute the sum of the first 10 natural numbers.
- 3. Write a program in C to display n terms of natural numbers and their sum.
- 4. Write a program in C to read 10 numbers from the keyboard and find their sum and average.
- 5. Write a program in C to display the cube of the number up to an integer.
- 6. Write a C program to display the n terms of odd natural numbers and their sum.
- 7. Write a program in C to display a pattern like a right angle triangle using an asterisk. The pattern like :

*
**
**

8. Write a program in C to make such a pattern like a right angle triangle with a number which will repeat a number in a row. The pattern like:

9. Write a program in C to make such a pattern like a right angle triangle with the number increased by 1. The pattern like :

10. Write a program in C to make a pyramid pattern with numbers increased by 1.

- 11. Write a C program to display the sum of n terms of even natural numbers.
- 12. Write a C program to calculate the factorial of a given number.
- 13. Write a program in C to find the sum of the series [1-X^2/2!+X^4/4!-.....].
- 14. Write a program in C to display the n terms of a harmonic series and their sum.

```
1 + 1/2 + 1/3 + 1/4 + 1/5 \dots 1/n terms
```

- 15. Write a program in C to display the sum of the series [9 + 99 + 999 + 9999 ...].
- 16. Write a program in C to print Floyd's Triangle.

17. Write a C program that displays the n terms of square natural numbers and their sum.

```
1 4 9 16 ... n Terms
```

- 18. Write a C program to check whether a given number is a 'Perfect' number or not.
- Write a C program to find the 'Perfect' numbers within a given number of ranges.
- 20. Write a C program to check whether a given number is an Armstrong number or not.
- 21. Write a program in C to display a pattern like a diamond.

*

22. Write a C program to determine whether a given number is prime or not.

- 23. Write a program in C to find the prime numbers within a range of numbers.
- 24. Write a program in C to display the first n terms of the Fibonacci series. Fibonacci series 0 1 2 3 5 8 13
- 25. Write a program in C to display a given number in reverse order.
- 26. Write a C program to check whether a number is a palindrome or not.
- 27. Write a C program to find the HCF (Highest Common Factor) and LCM of two numbers.
- 28. Write a C program to convert a binary number into a decimal number using the math function.
- 29. Write a program in C to check whether a number can be expressed as the sum of two prime.
- 30. Write a C program to check the Armstrong number of n digits.