

1. Write a C program to print all natural numbers from 1 to n.
2. Write a C program to print all natural numbers in reverse (from n to 1)
3. Write a C program to print all alphabets from a to z.
4. Write a C program to print all even numbers between 1 to 100.
5. Write a C program to print all odd number between 1 to 100.
6. Write a C program to find sum of all even numbers between 1 to n
7. Write a C program to find sum of all odd numbers between 1 to n
8. Write a C program to print multiplication table of any number
9. Write a C program to find first and last digit of a number
10. Write a C program to find sum of first and last digit of a number.
11. Write a C program to swap first and last digits of a number
12. Write a C program to calculate product of digits of a number
13. Write a C program to enter a number and print it in words.
14. Write a program in C to display n terms of natural numbers and their sum.
15. Write a program in C to read 10 numbers from keyboard and find their sum and average.
16. Write a program in C to display the cube of the number upto given an integer.
17. Write a program in C to display the multiplication table of a given integer.
18. Write a program in C to display the multiplication table vertically from 1 to n.
19. Write a program in C to print the Floyd's Triangle.
20. Write a c program to find the perfect numbers within a given number of range.
21. Write a program in C to display the pattern like a diamond.
22. Write a C program to display Pascal's triangle.
23. Write a program in C to display such a pattern for n number of rows using a number which will start with the number 1 and the first and a last number of each row will be 1.
24. Write a program in C to find the number and sum of all integer between 100 and 200 which are divisible by 9.
25. Write a program in C to convert a binary number into a decimal number without using array, function and while loop.
26. Write a program in C to convert a binary number into a decimal number using math function.

27. Write a c program to find out the sum of an A.P. series.
28. Write a program in c to find the Sum of GP series.
29. Write a program in C to Check Whether a Number can be Express as Sum of Two Prime Numbers.
30. Write a program in C to print a string in reverse order.
31. Write a C program to find the length of a string without using the library function.
32. Write a program in C to convert a decimal number to hexadecimal.
33. Write a program in C to convert an octal number into binary.
34. Write a program in C to convert a binary number to octal.

Write a C program that prints the following pattern of n lines. For example, for n = 5, the pattern looks like this:

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

Square Star Pattern

35.

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

Half Diamond Star Pattern

51.

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

Hollow Square Star Pattern with Diagonal

36.

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

Rhombus Star Pattern

37.

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

Mirrored Half Diamond Star Pattern

52.

```

      *****
     *      *
    *      *
   *      *
  *      *
 *****

```

Hollow Rhombus Star Pattern

38.

```

*****
*****
*****
*****
*****
*****

```

Mirrored Rhombus Star Pattern

39.

```

*****
 *      *
  *      *
   *      *
    *      *
 *****

```

Hollow Mirrored Rhombus Star Pattern

40.

```

 *
 **
 ***
 ****
 *****

```

Right Triangle Star Pattern

41.

```

      *
     ***
    *****
   *****
  *****
 *****
  *****
   ***
    *

```

Diamond Star Pattern

53.

```

*****
****  ****
***    ***
**     **
*      *
*      *
**     **
***    ***
****  ****
*****

```

Hollow Diamond Star Pattern

54.

```

      *****
     *****
    *****
   *****
  *****
 *****
 *****
 *****
 *****
 *****

```

Left Arrow Star Pattern

55.

```

*
**
* *
*  *
*****

```

Hollow Right Triangle Star Pattern

42.

```

*****
****
***
**
 *
**
***
****
*****

```

Right Arrow Star Pattern

43.

```

*
**
***
****
*****

```

Mirrored Right Triangle Star Pattern

44.

```

*
**
* *
*  *
*****

```

Hollow Mirrored Right Triangle Star Pattern

```

+
+
+
+
+++++++
+
+
+
+

```

Plus Star Pattern

56.

```

*      *
*      *
*      *
*      *
*
*      *
*      *
*      *
*      *

```

X Star Pattern

57.

```

***
*  *
*  *
*  *
***
*  *
*  *
*  *
***

```

Eight Star Pattern

58.

### Inverted Right Triangle Star Pattern

```

* * * * *
  * * * *
    * * *
      * *
        *

```

\*  
 \* \*  
 \* \* \*

### Pyramid Star Pattern

```

* * * * *
  * * * * *
    * * * *
      * * *
        *

```

[illegible]

## Heart Star Pattern

[illegible]

60. Heart Star Pattern with Name

49.

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

50. Hollow Inverted Pyramid Star Pattern