

1. Take N integers as input and display prime and not prime for each of the integer.
2. Take N integers as input and display Perfect and Not Perfect for each of the integer.

3. Calculate the Factorial of a number.

Sample Output:

Your input to calculate factorial: 5

Factorial of 5 is 120

4. Write a program in C++ to display the pattern like right angle triangle using an asterisk.

Sample Output:

Input number of rows: 5

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

5. Write a program in C++ to display the pattern like a diamond.

Sample Output:

Input number of rows (half of the diamond): 5

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

6. Write a program in C++ to convert a decimal number to hexadecimal number. Sample Output:

Input a decimal number: 43

The hexadecimal number is : 2B

7. Write a program in C++ to find the frequency of each digit in a given integer.

Sample Output:

Input any number: 122345

The frequency of 0 = 0

The frequency of 1 = 1

The frequency of 2 = 2

The frequency of 3 = 1

The frequency of 4 = 1

The frequency of 5 = 1

The frequency of 6 = 0

The frequency of 7 = 0

The frequency of 8 = 0

The frequency of 9 = 0

8. Write a program in C++ to create and display unique three-digit number using 1, 2, 3, 4. Also count how many three-digit numbers are there.

Sample Output:

The three-digit numbers are:

123 124 132 134 142 143 213 214 231 234 241 243 312 314 321 324 341 342 412 413
421 423 431 432

Total number of the three-digit-numbers are: 24