

## LOOPS 2

1. Write C++ program to display the cube of the number up to a given integer.

Sample:

Input: 5

Expected Output:

The number is: 1 and the cube of the 1 is: 1

The number is: 2 and the cube of the 2 is: 8

The number is: 3 and the cube of the 3 is: 27

The number is: 4 and the cube of the 4 is: 64

The number is: 5 and the cube of the 5 is: 125

2. Write C++ program to find the factorial of an input number from the user.

Notes: Write the code using for loop and while loop.

Input number > 0

3. Write an algorithm to check if the input number is abundant number or not.

Abundant number is a number which is less than its divisors

Example:

Number 12 divisors are: 1, 2, 3, 4, 6

$1 + 2 + 3 + 4 + 6 = 16$ , 16 larger than 12 so 12 is abundant number.

4. Write C++ program to find the Greatest common divisor between two input numbers.
5. Write C++ program or draw flowchart and write pseudo code to find the **least common divisor** between two input numbers.