Lab 2: C Programming Assignment

Write C programs that use both **recursive** and **non-recursive** functions to solve the following problems:

1. **Finding the Factorial of a Given Integer**

NOTE: The factorial of a non-negative integer n, denoted as n!, is the product of all positive integers from 1 to n. It is defined as follows:

- Base case: 0!=1 or 1!=1 (by definition)
- For n>1, $n!=n\times(n-1)\times(n-2)\times\ldots\times2\times1$

Example:

7! = 7 x6 x 5 x4 x3 x 2 x 1

=5040

To solve this program, start by writing up the algorithm of each problem and then code the solution. Include a trace table as well for your solution.

Code your solution and share the GitHub repository link.