Problem Statement:

Create a C++ program that implements a function to calculate the factorial of a given number using recursion.

In mathematics, the factorial of a non-negative integer n, denoted by n!, is the product of all positive integers less than or equal to n.

The factorial of n also equals the product of n with the next smaller factorial:
n!=n×(n−1)×(n−2)×(n−3)× ×3×2×1=n×(n−1)!

For example:
5!=5×4!=5×4×3×2×1=120.

Thank You