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Self-Made Assignment - C Language

While Loop in C Language

Task: Find the Factorial of a Number

Objective:

Write a C program to calculate the factorial of a number using a while loop.

Instructions:

The program should:

1. Ask the user to enter a non-negative integer (e.g., 5).
2. Use a while loop to compute the factorial of the number.
3. Display the result.

What is Factorial?

Factorial of n (written as n!) is the product of all positive integers from 1 to n.

Example:

- $5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$
- $0! = 1$ (by definition)

Resultant Output

Output

```
Enter a non-negative integer: 5
Factorial of 5 is 120
```