Recursion

Write a non-recursive pgm to calc factorial of a number

$5! = 5 \times 4 \times 3 \times 2 \times 1$

or

$1 \times 2 \times 3 \times 4 \times 5$

$n! = n \times (n-1) \times (n-2) \times \cdots \times 3 \times 2 \times 1$

or

$= 1 \times 2 \times 3 \times \cdots \times (n-2) \times (n-1) \times n$

Note: 1. Factorial of a negative no doesn't exist.

   2. $0! = 1$

$5!$ = $\underline{1 \times 2 \times 3 \times 4 \times 5}$

no=5

f=1

for (i=1; i<=no; i++)⁵

    f = f*i

Supln(f); // 120

no=5

$i = \cancel{1} \cancel{2} \cancel{3} \cancel{4} \cancel{5} 6$

f=1×1

=1×2

=2×3

=6×4

=24×5

=120