1. Factorial using recursion

Code:

#include <stdio.h>

unsigned long long factorial(int n) {

if (n == 0 || n == 1)

return 1;

else

return n \* factorial(n - 1);

}

int main() {

int num;

unsigned long long fact;

printf("Enter a non-negative integer: ");

scanf("%d", &num);

if (num < 0) {

printf("Factorial is not defined for negative numbers.\n");

return 1;

}

fact = factorial(num);

printf("Factorial of %d = %llu\n", num, fact);

return 0;

}

Output:

Enter a non-negative integer: 6

Factorial of 6 = 720

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Process exited after 1.102 seconds with return value 0

Press any key to continue . . .

