#include <iostream>

using namespace std;

int factorial(int n);

int main()

{

    int num;

    cout << "Enter the number of which you want to find factorial: ";

    cin >> num;

    if (num < 0)

    {

        cout << "Factorial is not possible";

    }

    else

    {

        cout << "Factorial of " << num << " is " << factorial(num);

    }

}

factorial(int n)

{

    if (n <= 1)

    {

        return 1;

    }

    return n \* factorial(n - 1);

}