https://course.acciojob.com/idle?question=346dcf47-f0b0-48b9-9e25 -c0a004837b34

EASY

Max Score: 30 Points

# **Product of natural numbers**

Write a recursive program to find the product of all the Natural numbers till n. Take input of n from the user and write a recursive function that returns the product of all the Natural numbers until n.

## **Input Format**

Enter an integer N (N>0)

# **Output Format**

Print the product of all the Natural numbers between N and 1 (both included).

## **Example 1**

Input

5

Output

120

Explanation

5 \* 4 \* 3 \* 2 \* 1 = 120.

## **Example 2**

```
Input
4
Output
24
Explanation
4 * 3 * 2 * 1 = 24.
```

#### **Constraints**

1 <= N <= 14

#### **Topic Tags**

Recursion

# My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
    static long prod(int n)
    {
        if(n==0)
            return 1L;
        else return(n*prod(n-1));
```

```
public static void main (String[] args) throws java.lang.Exception
{
    //your code here
    Scanner s=new Scanner(System.in);
    int n=s.nextInt();
    long p=prod(n);
    System.out.print(p);
}
```