//factorial program using loop

import java.util.Scanner;

public class Main

{

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.println("enter the number");

int num=sc.nextInt();

int i,fact=1;

for(i=1;i<=num;i++){

fact=fact\*i;

}

System.out.println("the factorial of the given no. is\t"+fact);

}

}

//factorial program using recursion

import java.util.Scanner;

public class Main

{

static int factorial(int num){

if(num==0)

return 1;

else

return (num\*factorial(num-1));

}

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.println("enter the number");

int num=sc.nextInt();

int i,fact=1;

fact=factorial(num);

System.out.println("the factorial of the given no. is\t"+fact);

}

}