**Day 26 coding Statement : Write a program to calculate Maximum number of handshakes**

**Description**

Get the number of people in the room as input from the user. Then calculate the maximum number of handshakes possible among that people.

For e.g. If there are N people in the room then the first person has to shake hand with N-1 people and second person has to shake hand with N-1-1 people i.e., N-2 handshakes are possible. Thus, it goes on.

So total hand shakes = N-1 + N-2 + N-3 +………+1 + 0

**Input**

10

**Output**

45

import java.util.Scanner;

public class RatanPrajapati\_day26 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int num = sc.nextInt();

        int ans = num\*(num-1)/2;

        System.out.println(ans);

    }

}