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.

Input : 10

Output : 45

Program :

```java
package com.talentbattle.codingchallenge;

import java.util.Scanner;

public class Handshakes {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter the number of People : ");
        int n = scan.nextInt();
        int handshakes = 0;

        while(n != 0)
        {
            handshakes = handshakes + (n-1);
            n = n - 1;
        }

        System.out.println("Maximum number of handshakes : " + handshakes);

    }

}
```

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```java
1  package com.talentbattle.codingchallenge;
2
3  import java.util.Scanner;
4
5  public class Handshakes {
6
7      public static void main(String[] args) {
8          // TODO Auto-generated method stub
9          Scanner scan = new Scanner(System.in);
10         System.out.println("Enter the number of People : ");
11         int n = scan.nextInt();
12         int handshakes = 0;
13
14         while(n != 0)
15         {
16             handshakes = handshakes + (n-1);
17             n = n - 1;
18         }
19
20         System.out.println("Maximum number of handshakes : " + handshakes);
21
22     }
23
24 }
25
```

Console

<terminated> Handshakes [Java Application] C:\Pro
Enter the number of People :
10
Maximum number of handshakes : 45