STUDENT REPORT

DETAILS

Name

ASRAR AHEMED K

Roll Number

TEMPBTech-ECE023

EXPERIMENT

Title

PYRAMID SUM

Description

Adam has a pyramid of numbers. The pyramid structure is formed by arranging the numbers in the following pattern

```
      1
     212
    32123
   4321234
  543212345
N___212___N
```

The first row contains the number 1. The second row contains the numbers 2, 1, and 2. The third row contains the numbers 3, 2, 1, 2, and 3. This pattern continues for subsequent rows, until it reaches N, which represents the height of the pyramid.

Given height of pyramid N find the sum of the numbers in the pyramid and return the sum as the output.

Sample Input:

3

Sample Output:

17

Explanation:

```
      1
     212
    32123
```

sum=1+2+1+2+3+2+1+2+3=17

Source Code:

```
n=int(input())
res=0
for i in range(1,n+1):
    temp=(i*(i+1))-1
    res+=temp
print(res)
```

RESULT

5 / 5 Test Cases Passed | 100 %