Roll Number 302 1 Post

23D21A05H4

STUDENT REPORT

Logo

DETAILS

Name

SAMALA JAHNAVI

EXPERIMENT

FINDING COMMAS

Description

EXP. Title
Title
Fr Liam works as a data analyst for a company that stores massive amounts of numerical data. He has been tasked with determining how many commas are used when writing numbers in the range of 1 to N (inclusive) in a specific format

In this format, if numbers are more than four digits long, commas are used to separate the numbers into groups of three, starting from the right for the representation of the number. Your task is to help Liam find and return an integer value, representing the total number of commas used when writing each integer in the range of 1 to N

Input Specification:

Input: An integer value N. representing the number range.

Output Specification:

Return an integer value, representing total number of commas used when writing each integer in the range of 1

Sample Input:

5000

Sample Output:

RESULT

5 / 5 Test Cases Passed | 100 %

Source Code:

```
def count_commas(n):
    total_commas = 0
    curr_range = 1000
    comma\_count = 1
    while curr_range <= n:</pre>
        next_range = min(n,curr_range*1000-1)
        count_in_range = next_range - curr_range + 1
        total_commas += count_in_range * comma_count
        curr_range *= 1000
        comma_count += 1
    return total_commas
n = int(input().strip())
print(count_commas(n))
```