STUDENT REPORT

DETAILS

Name

T G MANIKANTA

Roll Number

TEMPBTech-CSE082

EXPERIMENT

Title

ENCODE THE NUMBER

Description

You work in the message encoding department of a national security agency. Every message that is sent from or received in your office is encoded. You have an integer N, and each digit of N is squared and the squares are concatenated together to encode the original number. Your task is to find and return an integer value representing the encoded value of the number.

input1: An integer value N representing the number to be encoded.

Output :

Return an integer value representing the encoded value of the number.

Sample Input:

167

Sample Output:

13649

Source Code:

```python
n = int(input())
res = 0
f = 1

while n > 0:
    rem = n % 10        # Extract last digit
    sq = rem ** 2       # Square the digit

    if sq < 10:         # If the square is a single digit
        res = sq * f + res
        f *= 10         # Adjust factor for the next position
    else:
        res += sq * f
        f *= 100        # Adjust factor for two digits

    n //= 10            # Move to the next digit

print(res)
```

RESULT

5 / 5 Test Cases Passed | 100 %