



STUDENT REPORT

DETAILS

Name

VISHNUTEJA M

Roll Number

KUB23ECE037

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:

```
def encode_number(n):  
  
    # Convert the number to a string to access each digit  
  
    str_n = str(n)  
  
    # Square each digit and concatenate the results  
    encoded_str = ''.join(str(int(digit) ** 2) for digit in str_n)  
  
    # Convert the concatenated string back to an integer  
    encoded_value = int(encoded_str)  
  
    return encoded_value  
  
# Input reading  
n = int(input().strip()) # Read the integer N  
  
# Calculate and print the result  
result = encode_number(n)  
print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %