



STUDENT REPORT

DETAILS

Name

MANOJ MAHADEV PATIL

Roll Number

KUB23ECE020

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):  
  
    str_N = str(N)  
  
    encoded_str = ''.join(str(int(digit) ** 2) for digit in str_N)  
  
    encoded_value = int(encoded_str)  
  
    return encoded_value  
  
input_value = 167  
  
print(encode_number(input_value))
```

RESULT

KUB

CE02U

B23E

20 KU
CE02

ECE0
B23E

UB23
20 KU

020 KU
B23E