



# STUDENT REPORT

## DETAILS

Name

PALAK YADAV

Roll Number

3BR23AI116

## 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: int) -> int:
    N_str = str(N)
    result = ""
    for digit in N_str:
        square = int(digit) **2
        result += str(square)
    return int(result)
#input1 = 167
print(result)
```

## RESULT

0 / 5 Test Cases Passed | 0 %