



# STUDENT REPORT

## DETAILS

Name

ABDUL KHUDDUS KHAZI

Roll Number

KUB23CSE002

## 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 iterate over each digit
    encoded_str = ''.join(str(int(digit) ** 2) for digit in str(N))
    # Convert the concatenated string back to an integer
    return int(encoded_str)

# Input reading
N = int(input())
print(encode_number(N))
```

## RESULT

5 / 5 Test Cases Passed | 100 %