Logo

STUDENT REPORT

DETAILS

Name

SYED ASHFAQUR RAHEMAN

Roll Number

KUB23CSE143

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 string
    str_N = str(N)

    # Initialize an empty result string
    encoded_str = ''

    # Square each digit and concatenate the results
    for digit in str_N:
        squared = int(digit) ** 2
        encoded_str += str(squared)

    # Convert the concatenated string back to an integer
    return int(encoded_str)

# Example usage
N=int(input())
print(encode_number(N))
```

RESULT

5 / 5 Test Cases Passed | 100 %