



# STUDENT REPORT

## DETAILS

Name

AMRUTHA HIREGOUDRU

Roll Number

3BR23AI010

## 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=""

    for digit in str_N:
        squared_digit=int(digit)**2 #square the digit
        encoded_str+=str(squared_digit)
    encoded_value=int(encoded_str)
    return encoded_value

N=int(input())
result=encode_number(N)
print(result)
```

## RESULT

3BR

1010

23A10

1BR23  
1103

1038  
2A10

41010  
RR23

23A10  
02