



# STUDENT REPORT

## DETAILS

Name

ASRAR AHMED K

Roll Number

TEMPBTech-ECE023

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

## RESULT

ECEU

ach-EL

ch-EL

TEch  
MPBI

TEch-  
APBTe

APBTe  
TEMP

APBTe  
CW