

STUDENT REPORT

DETAILS

Name

Saleha B

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

RESULT

1 / 5 Test Cases Passed | 20 %

Roll Number

3BR23EE083

Source Code:

```
def encode_number(N):
    # Convert the number to a string to iterate throug
h its digits
    N_{str} = str(N)
    # Initialize an empty string to hold the encoded v
alue
    encoded_str = ""
    # Iterate through each digit in the string represe
ntation of N
    for digit in N_str:
        # Square the digit and concatenate the result
        squared_digit = int(digit) ** 2
        encoded_str += str(squared_digit)
    # Convert the concatenated string back to an integ
    return int(encoded_str)
# Sample Input
input_value = 167
# Output
print(encode_number(input_value)) # Should return 136
```

~1³⁵EE~

33Bt

~8³3*