Logo

STUDENT REPORT

DETAILS

Name

MOHAMMED FURKHAN

Roll Number

KUB23CSE085

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 integer to string to process each digit
    str_N = str(N)

    # List to hold the squared values as strings
    squared_digits = []

    # Iterate over each character in the string representation of N
    for digit in str_N:
        # Square the digit and convert it to string
        squared_digit = str(int(digit) ** 2)
        squared_digits.append(squared_digit)

    # Concatenate all squared values
    encoded_string = ''.join(squared_digits)

    # Convert the concatenated string back to an integer
    encoded_value = int(encoded_string)

    return encoded_value

# Example usage
N = 167
result = encode_number(N)
print(result)  # Output: 14949
```

RESULT

1 / 5 Test Cases Passed | 20 %