

# EXPERIMENT NO 1

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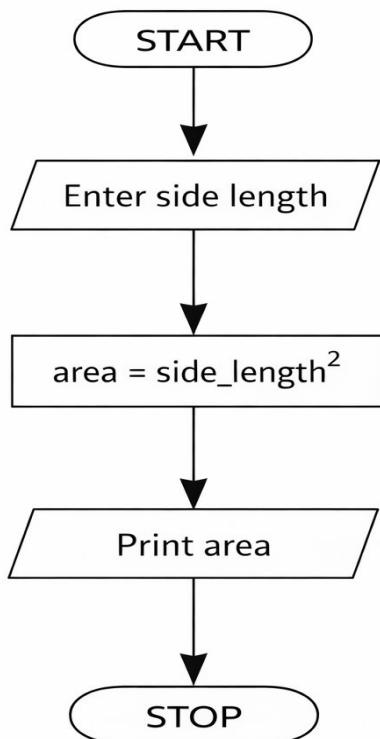
PRN : 25070521137

## 1.1.3 Area of square

### Algorithm

1. Start
2. Read the side length of the square.
3. Calculate the area using the formula
4. area = side\_length<sup>2</sup>
5. Display the area.
6. Stop

### Flowchart



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## Python code

```
side_length = int(input())
area = side_length ** 2
print(area)
```

## EXCECUTION

The screenshot shows the CodeTantra IDE interface. On the left, there's a problem statement for "1.1.3. Calculate Area of the Square". It asks to write a Python program that prompts the user for the side length of a square and calculates its area. A formula  $\text{Area} = \text{side.length}^2$  is provided. The code editor contains the following Python code:

```
# Write your code here...
side_length = int(input())
area = side_length * side_length
print(area)
```

The code editor also displays performance metrics: Average time 0.003 s, Maximum time 0.004 s, and 2 out of 2 test cases passed. Below the code editor, there are two tabs: "Test cases" and "Terminal". The "Test cases" tab shows two test cases: Test case 1 (input 5, output 25) and Test case 2 (input 3, output 9), both of which have passed. At the bottom right, there are buttons for "Reset", "Submit", and "Next >".