

EXPERIMENT NO 1

Name : Om Kashikar

PRN : 25070521170

1.1.3 Area of square

Algorithm

Step 1:- Start

Step 2:- Read the side length of the square.

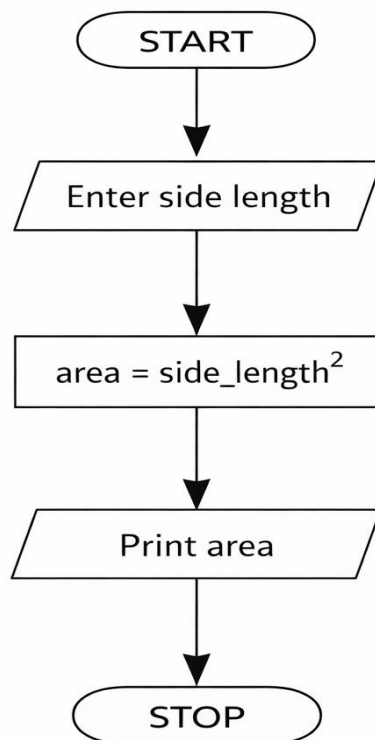
Step 3 :- Calculate the area using the formula

Step 4 :- $\text{area} = \text{side_length}^2$

Step 5:- Display the area.

Step 6:- Stop

Flowchart



EXPERIMENT NO 1

Python code

```
side_length = int(input())
```

```
area = side_length ** 2
```

```
print(area)
```

EXECUTION

The screenshot displays the CODETANTRA online IDE interface. On the left, the problem statement for "1.1.3. Calculate Area of the Square" is shown, including the formula $\text{Area} = \text{side_length}^2$ and input/output formats. The main editor on the right contains the Python code:

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

. Below the code editor, the execution results are displayed, showing that 2 out of 2 shown test cases passed and 2 out of 2 hidden test cases passed. The average time taken was 0.004 s (4.00 ms) and the maximum time was 0.006 s (6.00 ms). The test cases table shows that for both test cases, the expected output (25) matched the actual output (25). The interface also includes a terminal, a test cases tab, and navigation buttons at the bottom.

| Test Case | Expected output | Actual output | Status |
|-------------|-----------------|---------------|--------|
| Test case 1 | 25 | 25 | Passed |
| Test case 2 | 25 | 25 | Passed |