

EXPERIMENT NO 1

1.1.3 Area of square

Algorithm

Step 1 :- Start

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

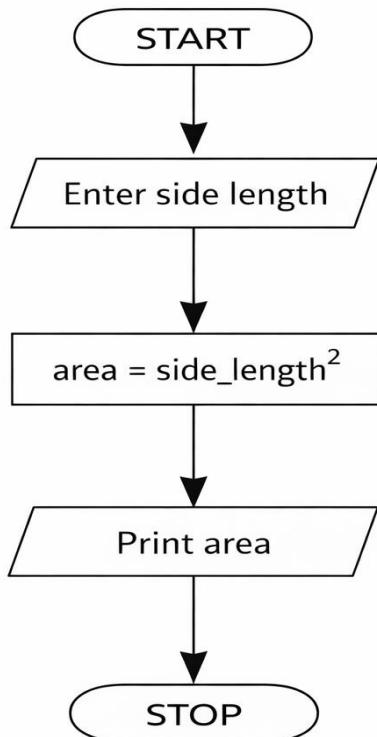
Step 3 :- Calculate the area using the formula

Step 4:- area = side_length²

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 shows the CodeTantra IDE interface. The title bar says "CODETANTRA" and "Home". The user is logged in as "harsh.ghaoghave.batch2025@sitnagpur.siu.edu.in". The main area displays a code editor with the following Python script:

```
length = int(input())
area = length*length
print(f"{area}")
```

The code editor has line numbers 1 through 9. Below the code editor, performance metrics are shown: Average time 0.007 s, Maximum time 0.010 s, and 6.75 ms. A success message indicates "2 out of 2 shown test case(s) passed" and "2 out of 2 hidden test case(s) passed". Two test cases are listed:

- Test case 1: Expected output 5, Actual output 25. Status: Passed (green checkmark).
- Test case 2: Expected output 10, Actual output 10. Status: Passed (green checkmark).

At the bottom, there are buttons for "Terminal", "Test cases", "Prev", "Reset", "Submit", and "Next >".