

EXPERIMENT NO 1

1.1.3 Area of square

Algorithm

Step 1 :- Start

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

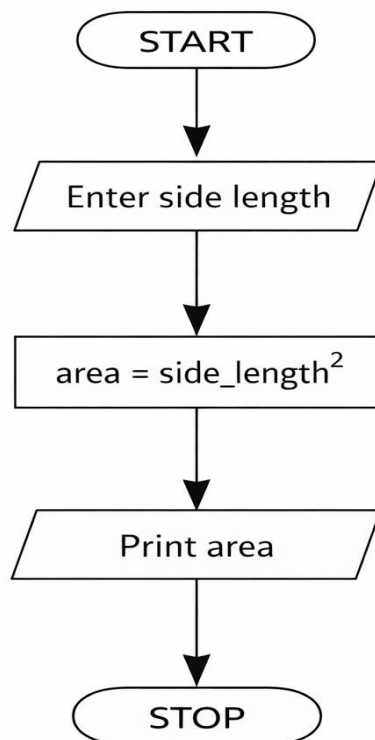
Step 3 :- Calculate the area using the formula

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

Step 5 :- Display the area.

Step 6 :- Stop

Flowchart



EXPERIMENT NO 1

Python code

side_length = int(input())

area = side_length ** 2

print(area)

EXCECUTION

The screenshot displays the CODETANTRA 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 format instructions. The main editor on the right contains the following Python code:

```
1 length = int(input())
2 area = length*length
3 print(f"{area}")
4
5
6
7
8
9
```

Below the code editor, the execution results are displayed. The average time is 0.007 s (6.75 ms) and the maximum time is 0.010 s (10.00 ms). The status indicates "2 out of 2 shown test case(s) passed" and "2 out of 2 hidden test case(s) passed". The test cases are as follows:

Test Case	Expected output	Actual output
Test case 1	25	25
Test case 2		

The bottom of the interface shows a terminal and test cases tab, along with navigation buttons: < Prev, Reset, Submit, Next >.