

Experiment 1.1.3

Aim:- Write a Python program that prompts the user to enter the side length of a square and computes the area of the square.

Algorithm:-

Step 1: Start

Step 2: Read the side length s

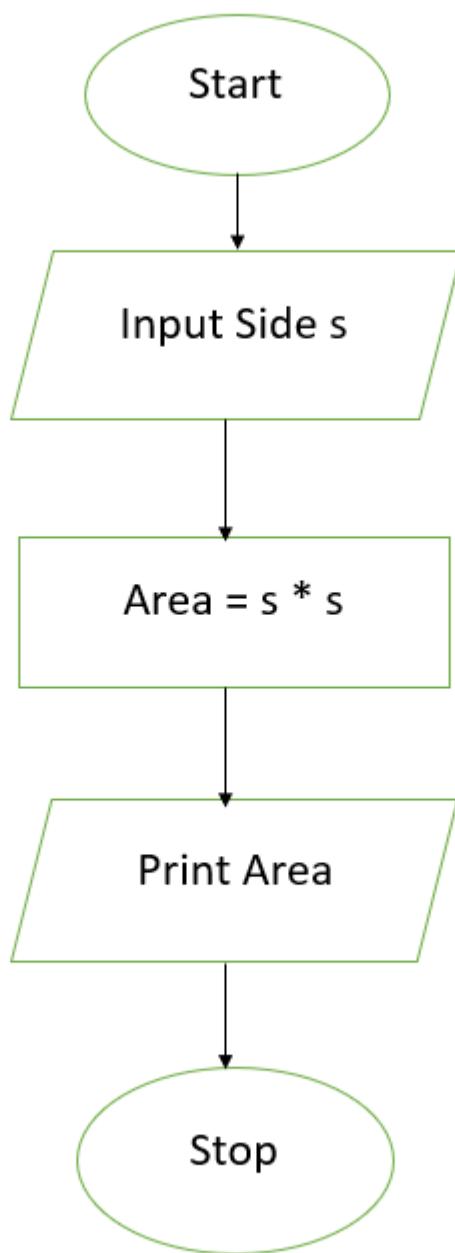
Step 3: Calculate the area using

$$\text{area} = s \times s$$

Step 4: Display the area

Step 5: Stop

Flowchart:-



Code:-

The screenshot shows a CodeTantra IDE interface for a challenge titled "1.1.3. Calculate Area of the Square".

Challenge Details:

- Task:** Write a Python program that prompts the user to enter the *side_length* of a square and computes the area of the square.
- Formula:** Area = side_length^2
- Input Format:** The input is a positive integer value that represents the *side_length* of the square.
- Output Format:** The output is a positive integer value that represents the area of the square.

Code Editor:

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

Performance Metrics:

- Average time: **0.004 s**
- Maximum time: **0.006 s**
- 4.50 ms
- 6.00 ms

Test Cases:

- Test case 1:** Expected output: 5, Actual output: 5
- Test case 2:** Expected output: 25, Actual output: 25

Buttons:

- Submit
- Reset
- < Prev
- Next >