

1.1.3 Area of Square - Algorithm, Flowchart and Code

.

Step 1. Start

Step 2. Read side_length (a)

Step 3. Compute area = $a \times a$ (or a^2)

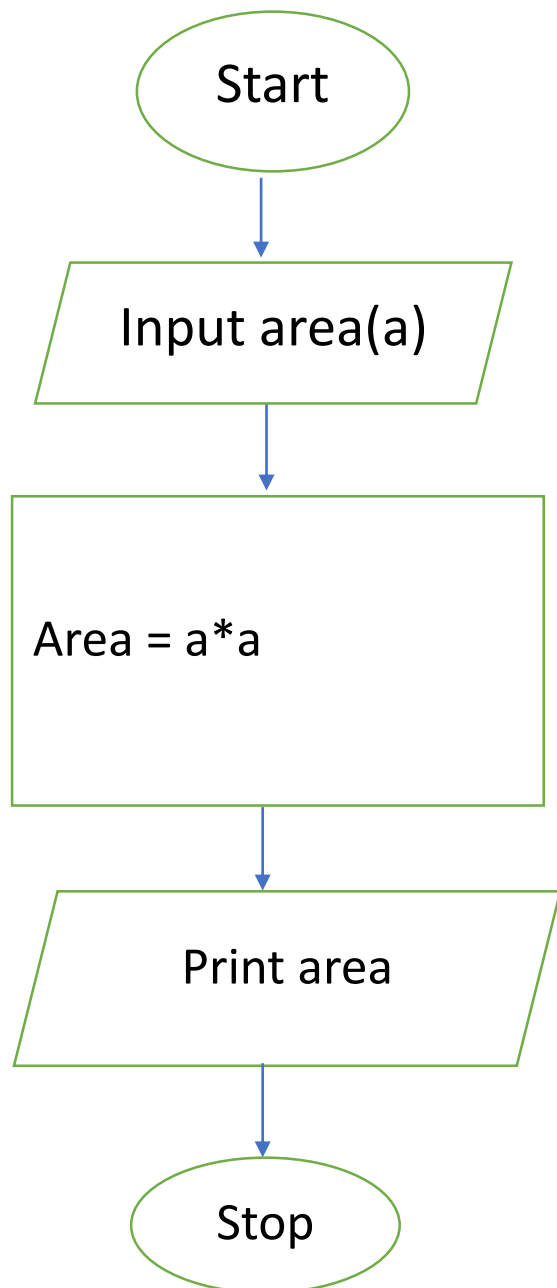
Step 4. Display/Print the area

Step 5. Stop

B) Python Code :

```
a= int(input())  
area = a*a  
print(area)
```

C) flowchart :



D) Output image :

The screenshot displays a coding environment with a problem statement on the left and a code editor with test results on the right.

Problem Statement: 1.1.3. Calculate Area of the Square

Write a Python program that prompts the user to enter the *side_length* of a square and computes the area of the square.

Formula:

- $\text{Area} = \text{side_length}^2$

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.

Sample Test Cases

Code Editor: AreaSqua...

```
1 a=int(input())
2 area=a*a
3 print(area)
4
5
6
7
8
```

Test Results:

- Average time: 0.005 s (4.75 ms)
- Maximum time: 0.006 s (6.00 ms)
- 2 out of 2 shown test case(s) passed
- 2 out of 2 hidden test case(s) passed

Test case 1 (6 ms):

Expected output	Actual output
5	5
25	25

Test case 2 (4 ms):