

1.1.3 Area of Square - Algorithm, Flowchart and Code

A) Algorithm

Step 1. Start

Step 2. Read side_length (a)

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

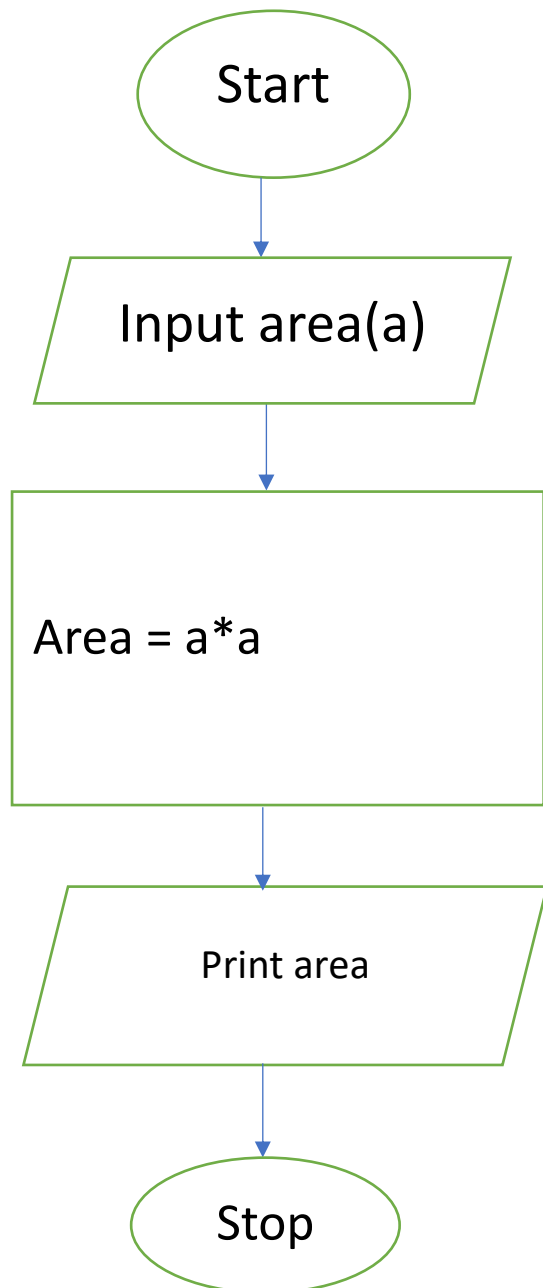
Step 4. Display/Print the area

Step 5. Stop

B) Python Code :

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

C) flowchart :



D) Output image :

The screenshot displays a coding interface for a problem titled "1.1.3. Calculate Area of the Square". The problem description asks for a Python program that prompts the user to enter the *side_length* of a square and computes the area. The formula provided is $\text{Area} = \text{side_length}^2$. The input format specifies a positive integer for *side_length*, and the output format specifies a positive integer for the area.

The code editor shows the following Python code:

```
1 a=int(input())
2 area=a*a
3 print(area)
```

The test results section indicates that 2 out of 2 shown test case(s) passed and 2 out of 2 hidden test case(s) passed. The performance metrics are:

Metric	Value
Average time	0.005 s (4.75 ms)
Maximum time	0.006 s (6.00 ms)

Test case details:

Test Case	Time	Expected output	Actual output
Test case 1	6 ms	25	25
Test case 2	4 ms		

The interface also includes a "Sample Test Cases" section and a "Terminal" tab.