

Experiment - 1.1.3. Calculate Area of the Square

1. Aim

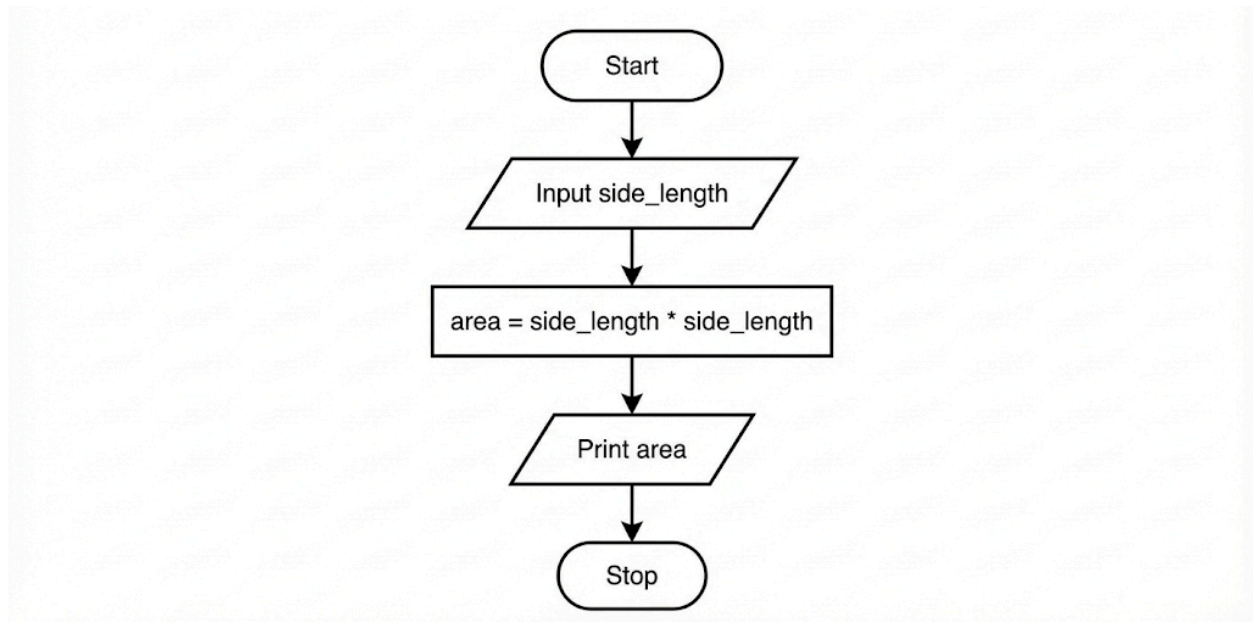
To design and implement a Python program that calculates the area of a square. The program accepts the `side_length` as an integer input and computes the area using the formula

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

2. Pseudocode

1. **START**
2. **READ** the input value from the user and convert it to an integer.
3. **STORE** this value in the variable `side_length`.
4. **CALCULATE** the area by multiplying `side_length` by itself (`side_length * side_length`).
5. **STORE** the result in the variable `area`.
6. **PRINT** the value of `area`.
7. **END**

3. Flowchart



4. Python Program

```
# Program to calculate the area of a square
# Input: side_length as an integer
```

```
# Output: area as an integer
```

```
# Taking input from the user  
side_length = int(input())
```

```
# Calculating area (side * side)  
area = side_length * side_length
```

```
# Displaying the result  
print(area)
```

5. Experiment Screenshot

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1.1.3. Calculate Area of the Square 0025

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.

Sample Test Cases +

AreaSqua... Submit

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

Average time: 0.003 s (3.00 ms) Maximum time: 0.004 s (4.00 ms)

2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 1 4 ms Debug

Expected output: 5
Actual output: 5

Terminal Test cases

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