Experiment - 1.1.3. Calculate Area of the Square

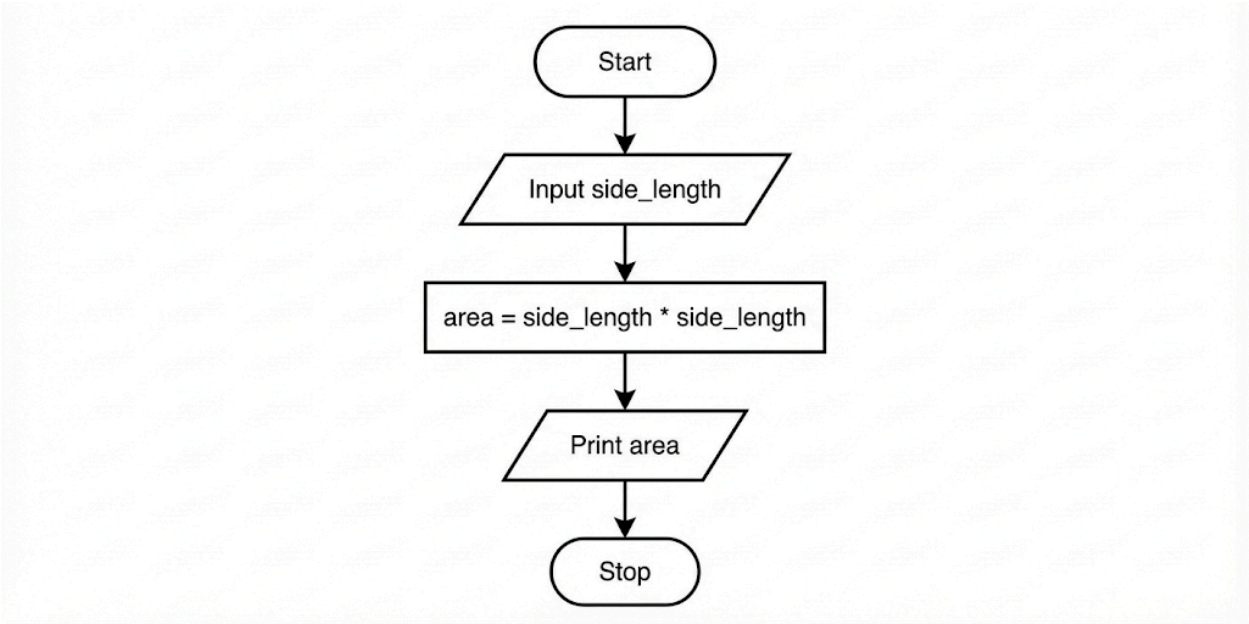
1. Aim

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 $Area = side\_length^2$.

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