Experiment - 1.1.2. Area of Rectangle

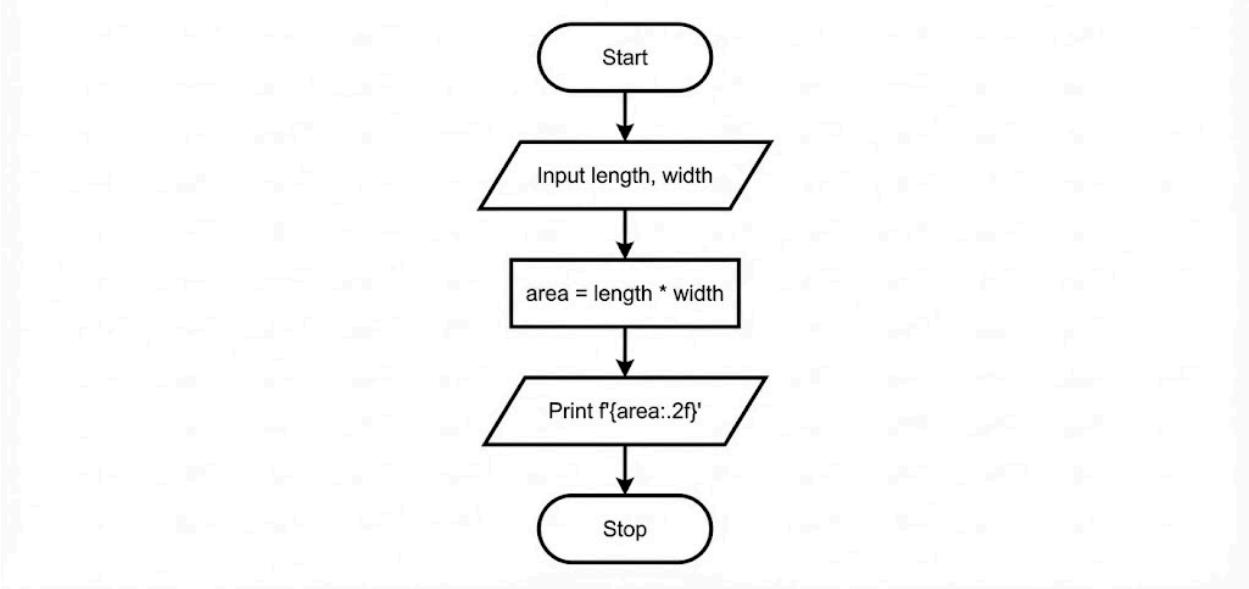
1. Aim

To design and implement a Python program that calculates the area of a rectangle. The program accepts the length and width as floating-point inputs from the user and computes the area using the formula $Area = Length \times Width$, displaying the result formatted to two decimal places.

2. Pseudocode

1. **START**
2. **READ** the first input value and store it as a float in the variable length.
3. **READ** the second input value and store it as a float in the variable width.
4. **CALCULATE** the area by multiplying length and width.
5. **STORE** the result in the variable area.
6. **FORMAT** the value of area to 2 decimal places.
7. **PRINT** the formatted result.
8. **END**

3. Flowchart



4. Python Program

```
# Program to calculate the area of a rectangle
# Input: Length and Width as floats
# Output: Area formatted to 2 decimal places

# Taking inputs from the user
length = float(input())
width = float(input())

# Calculating area
area = length * width

# Displaying the result formatted to 2 decimal places
print(f"{area:.2f}")
```

5. Experiment Screenshot