

EXPERIMENT - 1

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1.1.2 Area of a Rectangle

A] Algorithm

Step 1] Start

Step 2] Read the length of the rectangle.

Step 3] Read the width of the rectangle.

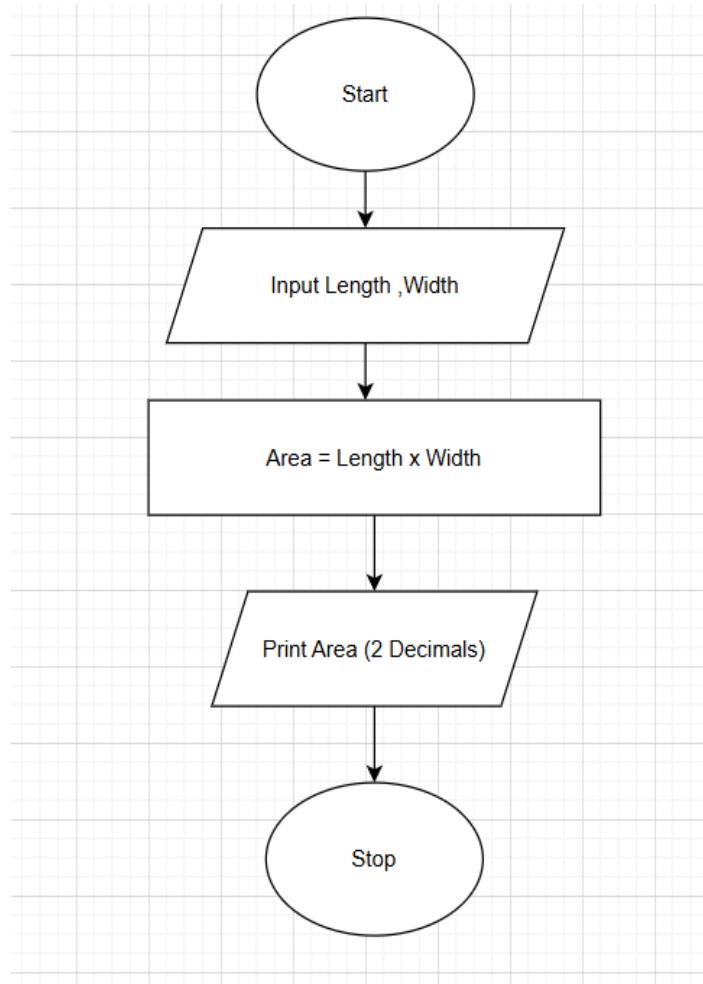
Step 4] Calculate the area using the formula

$$\text{area} = \text{length} \times \text{width}$$

Step 5] Display the area formatted to 2 decimal places.

Step 6] Stop

Flowchart



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PYTHON CODE

```
length = float(input())
width = float(input())
area = length * width
print(f"{area:.2f}")
```

EXECUTION

The screenshot shows the CodeTantra IDE interface. The title bar says "CODETANTRA" and "Home". The user is logged in as "om.kashikar.batch2025@sitnagpur.siu.edu.in". The current project is "1.1.2. Area of Rectangle". The code editor contains the following Python code:

```
length = float(input())
width = float(input())
area = length * width
print(f"{area:.2f}")
```

The code is highlighted with syntax colors. Below the code editor, there's a status bar showing "Average time: 0.006 s" and "Maximum time: 0.009 s". It also indicates "5 out of 5 shown test case(s) passed" and "5 out of 5 hidden test case(s) passed".

The interface includes sections for "Input Format", "Output Format", and "Sample Test Cases". The "Output Format" section specifies that the output should be a float value formatted to 2 decimal places. The "Sample Test Cases" section shows two test cases. Test case 1 has an expected output of "18.5", "5.2", and "54.60", and an actual output of "18.5", "5.2", and "54.60". Test case 2 has an expected output of "18.5", "5.2", and "54.60", and an actual output of "18.5", "5.2", and "54.60".