

# EXPERIMENT - 1

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## 1.1.2 Area of a Rectangle

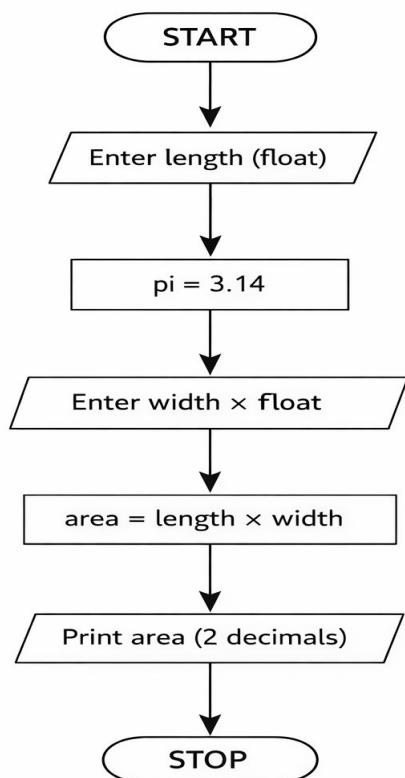
### A] Algorithm

- 1] Start
- 2] Read the length of the rectangle.
- 3] Read the width of the rectangle.
- 4] Calculate the area using the formula

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

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

- 6] Stop



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## PYTHON CODE

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

## EXCECUTION

The screenshot shows the CodeTantra IDE interface. The title bar says "CODETANTRA" and "Home". The user is logged in as "atharva.mendhule.batch2025@sitnagpur.siu.edu.in". The main area displays a Python script for calculating the area of a rectangle. The code is:

```
# Type Content here...
l=float(input())
w=float(input())
area=l*w
print(f'{area:.2f}')
```

Below the code, there are sections for "Input Format" and "Output Format". The "Input Format" section states: "First line contains a float value representing the length of the rectangle" and "Second line contains a float value representing the width of the rectangle". The "Output Format" section states: "Print the area of the rectangle as a float value formatted to 2 decimal places.".

At the bottom, the results of the execution are shown. It shows "Average time: 0.006 s" and "Maximum time: 0.012 s". It also indicates "5 out of 5 shown test case(s) passed" and "5 out of 5 hidden test case(s) passed". The "Test case 1" and "Test case 2" sections show expected output and actual output, both of which are identical. The terminal tab is visible at the bottom left, and there are navigation buttons at the bottom right: "< Prev", "Reset", "Submit", and "Next >".