

# 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.

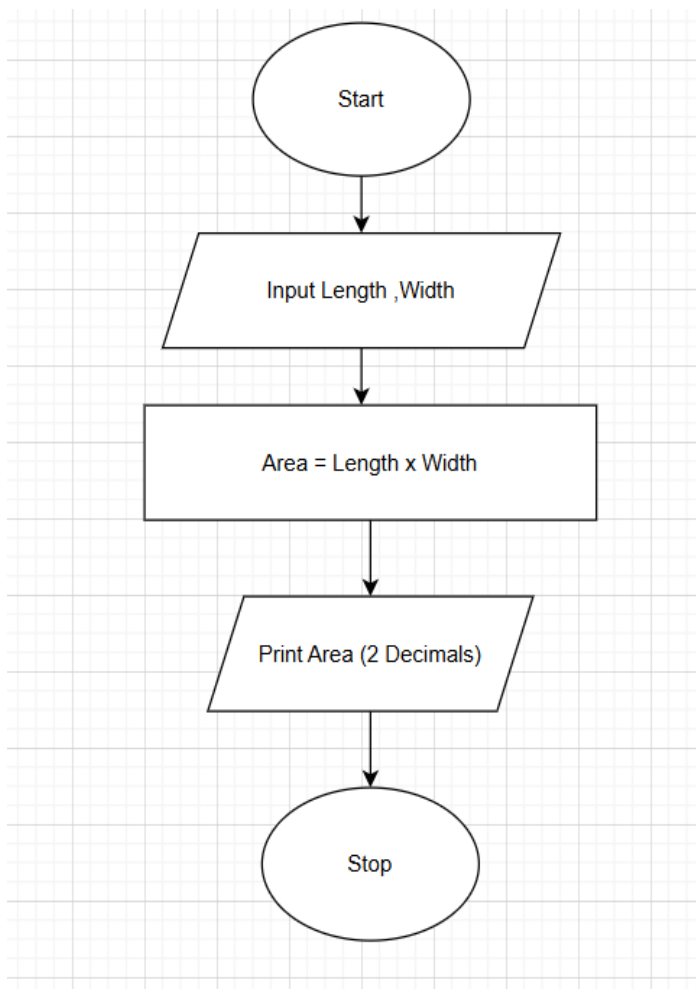
Step 4] Calculate the area using the formula

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

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 displays the CODETANTRA IDE interface. On the left, the problem statement for "1.1.2. Area of Rectangle" is shown, including the formula  $\text{Area of Rectangle} = \text{Length} \times \text{Width}$  and input/output formats. The main editor on the right contains the Python code: 

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

. Below the code, the execution results are displayed, showing that 5 out of 5 shown test cases passed and 5 out of 5 hidden test cases passed. The test cases table shows expected and actual outputs for two cases: 

Test Case	Expected Output	Actual Output
Test case 1	18.5 5.2	18.5 5.2
Test case 2	54.60	54.60

. The bottom of the interface includes a terminal, test cases button, and navigation controls like Prev, Reset, Submit, and Next.