

EXPERIMENT - 1

1.1.2 Area of a Rectangle

A. Algorithm

Step 1 :- Start

Step 2 :- Read the length of the rectangle.

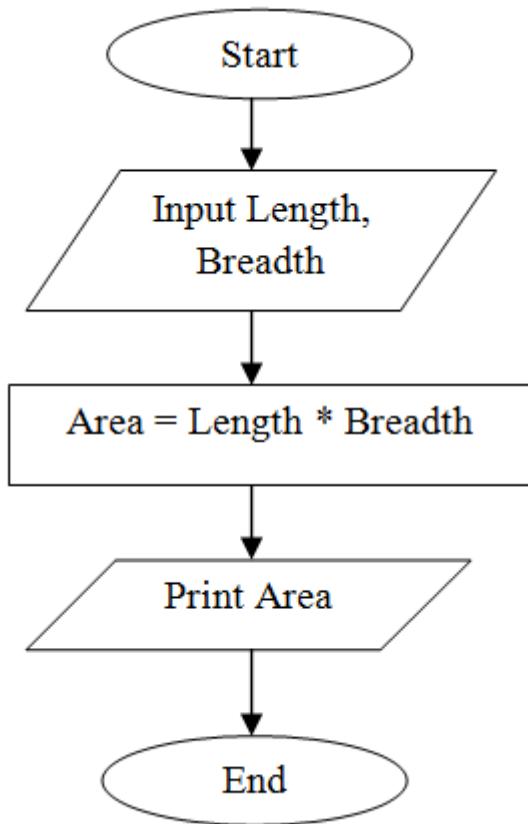
Step 3 :- Read the width of the rectangle.

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



PYTHON CODE

```
length = float(input())
```

```
width = float(input())
```

```
area = length * width
```

```
print(f'{area:.2f}')
```

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EXECUTION

The screenshot shows the CodeTantra IDE interface. The title bar displays "CODETANTRA" and the user "harsh.ghaoghave.batch2025@sitnagpur.slu.edu.in". The main area shows a code editor with the following Python script:

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

Below the code editor, performance metrics are shown: Average time 0.009 s, Maximum time 0.038 s, and 8.70 ms. Test results indicate 5 out of 5 shown test case(s) passed and 5 out of 5 hidden test case(s) passed.

Test cases details:

Test Case	Expected Output	Actual Output
Test case 1	10.5 5.2 54.60	10.5 5.2 54.60
Test case 2		

At the bottom, there are buttons for Terminal, Test cases, Prev, Reset, Submit, and Next ?.