

1.1.2 Area of rectangle

Algorithm

Step 1: Start

Step 2: Input the value of a

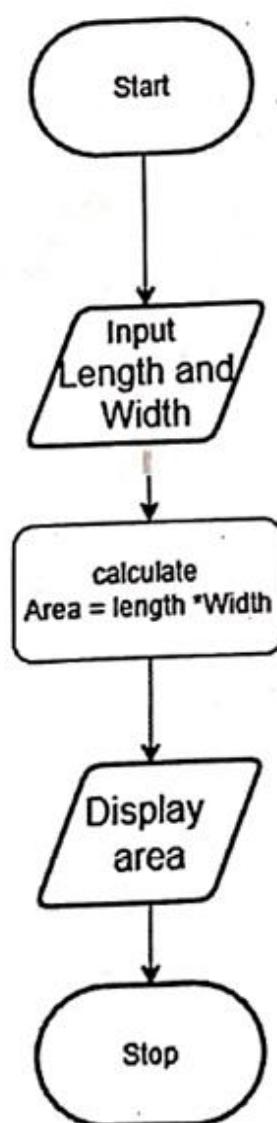
Step 3: Input the value of b

Step 4: Calculate the area using

$$\text{area} = a \times b$$

Step 5: Display the area up to 2 decimal places

Step 6: Stop



The screenshot shows the CodeTANTRA IDE interface. The top navigation bar includes 'Logout' (red button), 'Home' (blue button), 'Sample Test Cases' (blue button), 'Support' (blue button), and 'Debug' (blue button). The main workspace has tabs for '1.1.2. Area of Rectangle' and '1.1.3. Area of Circle'. The '1.1.2. Area of Rectangle' tab is active, displaying the following code:

```
# Read length and width from input
length = float(input())
width = float(input())

# Calculate area
area = length * width

# Print area formatted to 2 decimal places
print(f"Area: {area:.2f}")
```

Annotations in the code editor include:

- A red box highlights the first line: '# Read length and width from input'.
- A green box highlights the second line: 'length = float(input())'.
- A blue box highlights the third line: 'width = float(input())'.
- A yellow box highlights the fifth line: '# Calculate area'.
- A red box highlights the sixth line: 'area = length * width'.
- A green box highlights the eighth line: '# Print area formatted to 2 decimal places'.
- A blue box highlights the ninth line: 'print(f"Area: {area:.2f}")'.

Below the code editor, there are instructions and notes:

- Formula:** $\text{Area of Rectangle} = \text{Length} \times \text{Width}$
- Input Format:**
 - First line contains a float value representing the length of the rectangle
 - Second line contains a float value representing the width of the rectangle
- Output Format:**
 - Print the area of the rectangle as a float value formatted to 2 decimal places.

The code execution results are shown in a separate window:

Average time	Maximum time	Test Status
0.008 s	0.012 s	5 out of 5 shown test case(s) passed
8.20 ms	12.00 ms	5 out of 5 hidden test case(s) passed

Test results for individual cases:

Test case	Time	Expected output	Actual output
Test case 1	12.00 ms	10.5	10.5
Test case 2	11.00 ms	5.2	5.2
Test case 3	11.00 ms	54.60	54.60

On the right side of the interface, there are navigation buttons: 'Logout', 'Home', 'Sample Test Cases', 'Test cases', 'Terminal', 'Reset', 'Submit', 'Prev', and 'Next'.