

## 1.1.2 Area of Rectangle :

### A) Algorithm

Step 1. Start

Step 2. Read length (a) and width (b)

Step 3. Compute area = a × b

Step 4. Display the area formatted to 2 decimal places

Step 5. Stop

### B) Python Code

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

### C) output

The screenshot shows the CodeTantra IDE interface. On the left, there's a problem statement for "1.1.2. Area of Rectangle". It asks to write a Python program to calculate the area of a rectangle given its length and width. Below this, there are sections for "Formula:" (Area of Rectangle = Length × Width), "Input Format:" (two float values), and "Output Format:" (float value formatted to 2 decimal places). On the right, the code editor shows the following Python script:

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

Below the code editor, performance metrics are displayed: Average time 0.011 s, Maximum time 0.050 s, 10.50 ms. It also shows test results: 5 out of 5 shown test case(s) passed and 5 out of 5 hidden test case(s) passed. Two specific test cases are expanded:

**Test case 1**:  
Expected output: 18.5  
Actual output: 18.5  
5.2  
54.68

**Test case 2**:  
Expected output: 5.2  
Actual output: 5.2  
54.68

At the bottom, there are buttons for "Terminal" and "Test cases".

D) flowchart

