

EX 1.1.4) Area of Triangle

A) Algorithm :

Step 1. Start

Step 2. Read base (b) and height (h)

Step 3. Compute area = $0.5 \times a \times b$

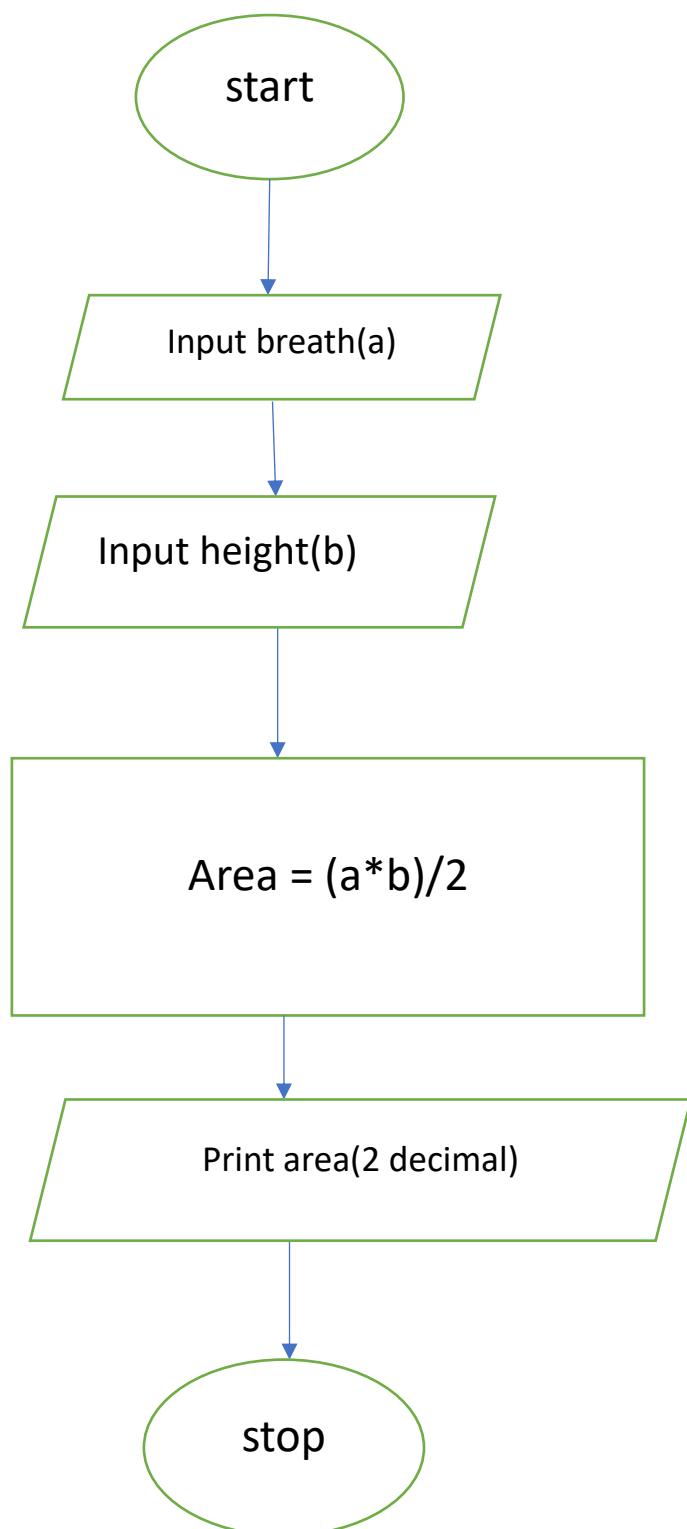
Step 4. Display/Print the area formatted to 2 decimal places

Step 5. Stop

B) Python Code :

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

C) flowchart :



D) Output image:

The screenshot shows the CodeTantra IDE interface. The title bar says "CODETANTRA" and "Home". The top right shows the user's email "shreyash.girade.batch2025@sitnagpur.siu.edu.in", "Support", and a "Logout" button.

The main area displays a Python code snippet for calculating the area of a triangle:

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

Below the code, there are performance metrics and test results:

- Average time: 0.009 s (8.50 ms)
- Maximum time: 0.012 s (12.00 ms)
- Test results: 2 out of 2 shown test case(s) passed; 2 out of 2 hidden test case(s) passed.

Test cases section:

- Test case 1: Expected output [6.54, 1.23, 4.82] vs Actual output [6.54, 1.23, 4.82]
- Test case 2: Expected output [6.54, 1.23, 4.82] vs Actual output [6.54, 1.23, 4.82]

Bottom navigation includes "Terminal" and "Test cases".