

EX 1.1.4) Area of Triangle

A) Algorithm :

Step 1. Start

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

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

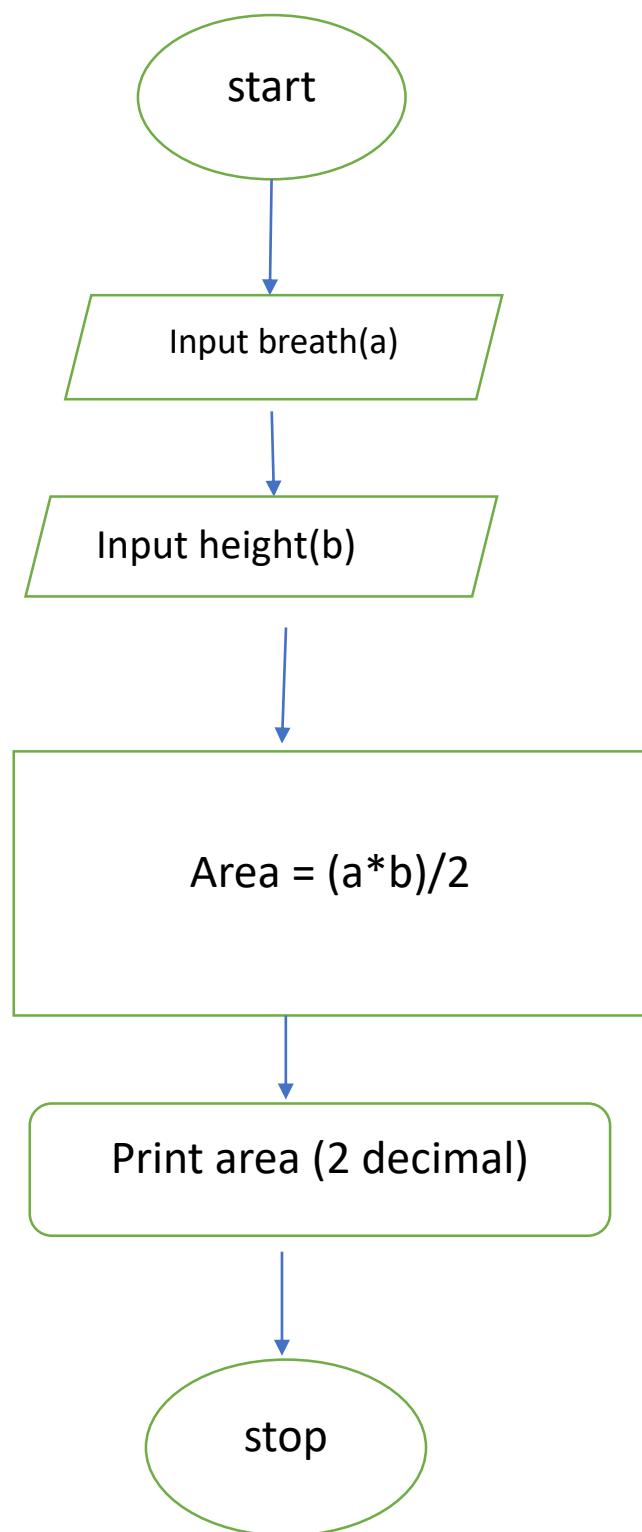
Step 4. Display/Print the area formatted to 2 decimal places

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 user is logged in as "shreyash.girade.batch2025@sitnagpur.siu.edu.in". The main area displays a code editor with a Python script named "triangleA...". The code calculates the area of a triangle given its base and height.

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

The code editor includes an "Explorer" sidebar and a "Submit" button. Below the code editor, a results section shows test case statistics: "2 out of 2 shown test case(s) passed" and "2 out of 2 hidden test case(s) passed". The results table for Test case 1 shows expected output [6.54, 1.23, 4.82] and actual output [6.54, 1.23, 4.82]. The results table for Test case 2 shows expected output [6.54, 1.23, 4.82] and actual output [6.54, 1.23, 4.82].

1.14. Area of Triangle

Write a Python program that prompts the user to enter the triangle's base and height and computes the triangle's area.

Formula: $\text{Area of Triangle} = 0.5 \times \text{base} \times \text{height}$.

Input Format:

- The first line of input is the float value that represents the base of the triangle.
- The second line of input is the float value that represents the height of the triangle.

Output Format:

- The output is the floating point value that represents the area of a triangle, formatted to two decimals.

Sample Test Cases