

EX 1.1.4) Area of Triangle

A) Algorithm :

Step 1. Start

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

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

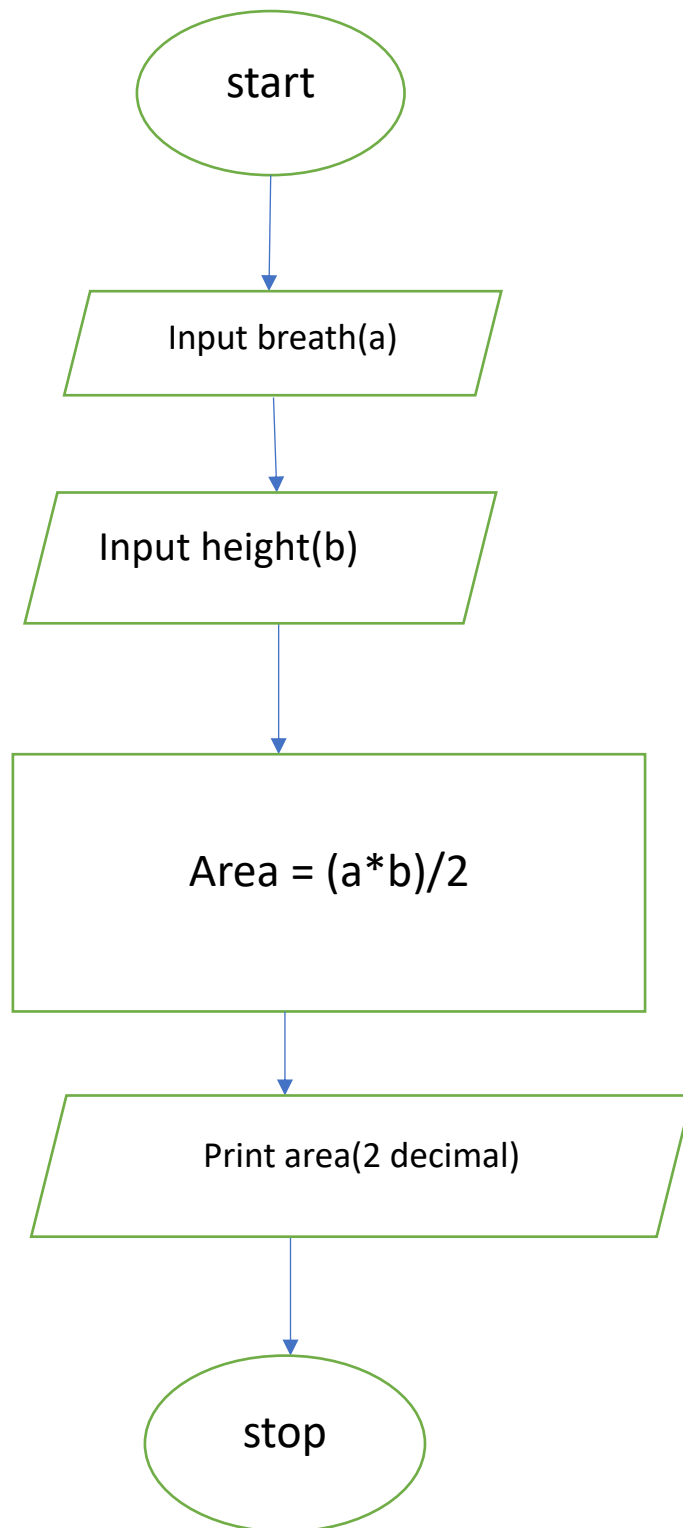
Step 4. Display/Print the area formatted to 2 decimal places

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:

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1.1.4. 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

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

Average time: 0.009 s (8.50 ms) Maximum time: 0.012 s (12.00 ms)

2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 1 (12 ms)

Expected output	Actual output
6.54	6.54
1.23	1.23
4.82	4.82

Test case 2 (8 ms)

Terminal Test cases