

EXPERIMENT - 1

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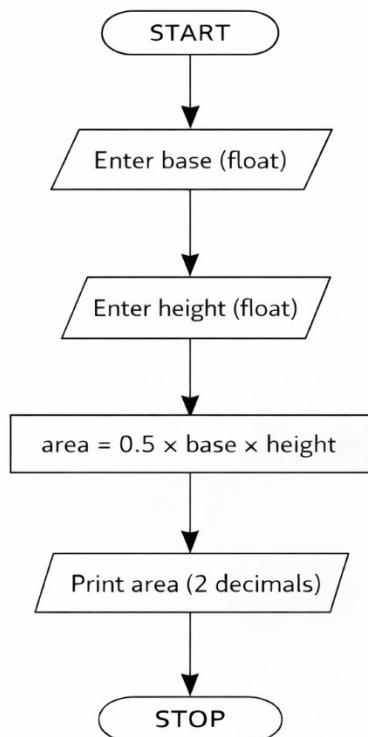
PRN :

1.1.4 AREA OF TRIANGLE

ALGORITHM

1. Start
2. Read the base of the triangle.
3. Read the height of the triangle.
4. Calculate the area using the formula
5. $\text{area} = 0.5 \times \text{base} \times \text{height}$
6. Display the area formatted to 2 decimal places.
7. Stop

Flowchart



EXPERIMENT - 1

Python Code

```
base = float(input())
height = float(input())
area = 0.5 * base * height
print(f"{area:.2f}")
```

EXCECUTION

The screenshot shows the CodeTantra IDE interface. The left sidebar displays the problem statement: "1.14. Area of Triangle". It describes the task of writing a Python program to calculate the area of a triangle given its base and height. The formula is provided as $0.5 \times \text{base} \times \text{height}$. Input and output formats are specified: input is two floating-point numbers, and output is a floating-point number formatted to two decimal places. The right panel shows the code editor with the following Python code:

```
# Write your code here...
b=float(input())
h=float(input())
area=0.5*b*h
print(f"{area:.2f}")
```

Below the code editor, performance metrics are shown: Average time 0.005 s, Maximum time 0.006 s, and 5.50 ms. Test results indicate 2 out of 2 shown test case(s) passed and 2 out of 2 hidden test case(s) passed. The test cases are detailed as follows:

Test Case	Time	Expected Output	Actual Output
Test case 1	5 ms	6.54 1.23 4.82	6.54 1.23 4.82
Test case 2	5 ms		

At the bottom, there are buttons for Terminal, Test cases, and navigation links like < Prev, Reset, Submit, and Next >.