

EXPERIMENT - 1

Name : Om Kashikar

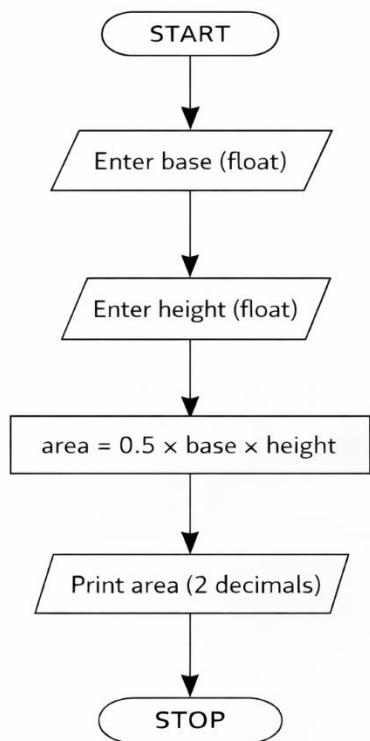
PRN : 25070521170

1.1.4 AREA OF TRIANGLE

ALGORITHM

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

Flowchart



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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 for a task titled "1.14. Area of Triangle". The code editor contains the provided Python script. The execution results show two test cases passed, with average and maximum execution times displayed. The terminal output shows the expected and actual results for both test cases.

Code Editor:

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

Execution Results:

Average time	Maximum time
0.004 s	0.005 s
4.28 ms	5.00 ms

Test Cases:

Test Case	Expected Output	Actual Output
Test case 1	6.54 1.23 4.02	6.54 1.23 4.02
Test case 2	6.54 1.23 4.02	6.54 1.23 4.02