

## 1.1.4

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

ALGORITHM:

Step 1 -> start

Step 2 -> take input of base and height

Step 3 -> calculate area :-

$$\text{Area} = 0.5 * \text{base} * \text{height}$$

Step 4 -> give output

Step 5 -> stop

CODE:

The screenshot displays the CODETANTRA web-based IDE interface. On the left, a panel titled "1.1.4. Area of Triangle" contains the problem description: "Write a Python program that prompts the user to enter the triangle's base and height and computes the triangle's area." It also provides the formula:  $\text{Area of Triangle} = 0.5 \times \text{base} \times \text{height}$ . Below the formula, it specifies the input and output formats. The input format requires two lines of float input for base and height. The output format requires a single line of float output for the area, formatted to two decimal places. At the bottom of this panel, there is a section for "Sample Test Cases".

The main editor area on the right shows a Python file named "triangleA...". The code written in the editor is as follows:

```
1 base = float(input())
2 height = float(input())
3
4 area = 0.5 * base * height
5 print(f"area:.2f")
6
7
```

At the bottom of the IDE, there are tabs for "Terminal" and "Test cases".

