Experiment - 1.1.4. Area of Triangle

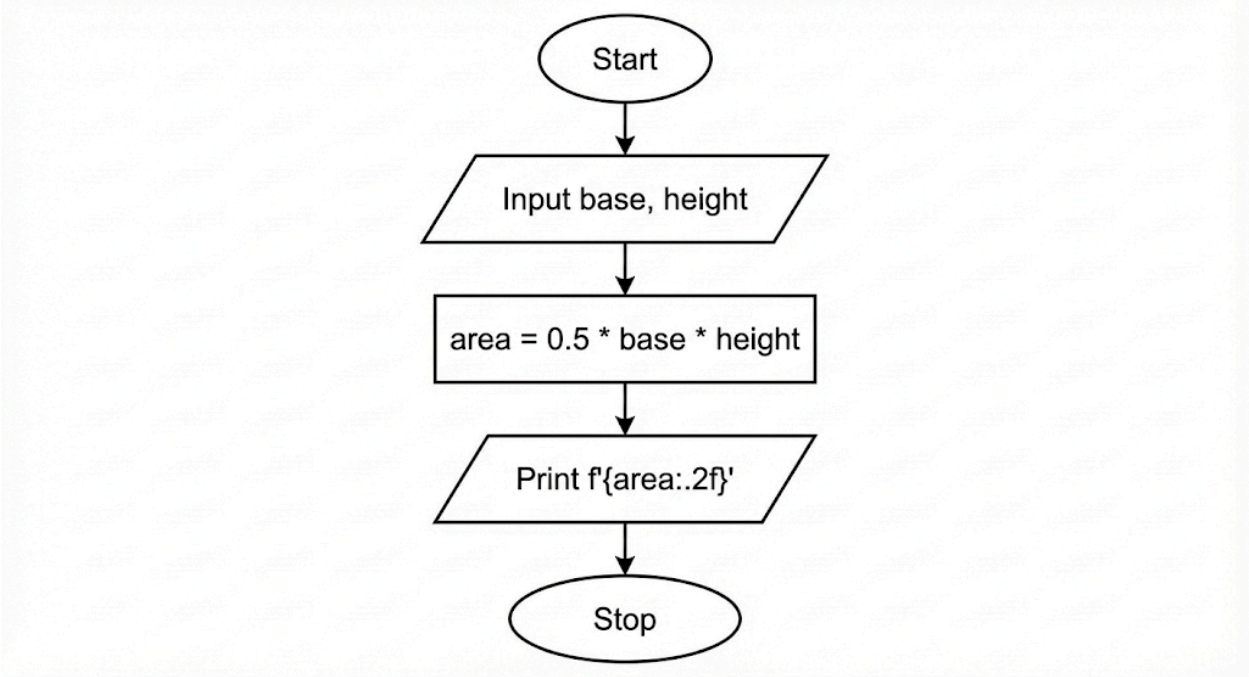
1. Aim

To design and implement a Python program that calculates the area of a triangle. The program prompts the user to enter the base and height as floating-point values and computes the area using the formula $Area = 0.5 \times base \times height$, with the result formatted to two decimal places.

2. Pseudocode

1. **START**
2. **READ** the first input value and store it as a float in the variable base.
3. **READ** the second input value and store it as a float in the variable height.
4. **CALCULATE** the area using the formula: 0.5 * base * height.
5. **STORE** the result in the variable area.
6. **FORMAT** the result to show 2 decimal places.
7. **PRINT** the formatted area.
8. **END**

3. Flowchart



4. Python Program

Program to calculate the area of a triangle

```
# Input: Base and Height as float values
# Output: Area formatted to two decimal places

# Taking inputs from user
base = float(input())
height = float(input())

# Calculating the area
area = 0.5 * base * height

# Displaying the output formatted to 2 decimal places
print(f"{area:.2f}")
```

5. Experiment Screenshot