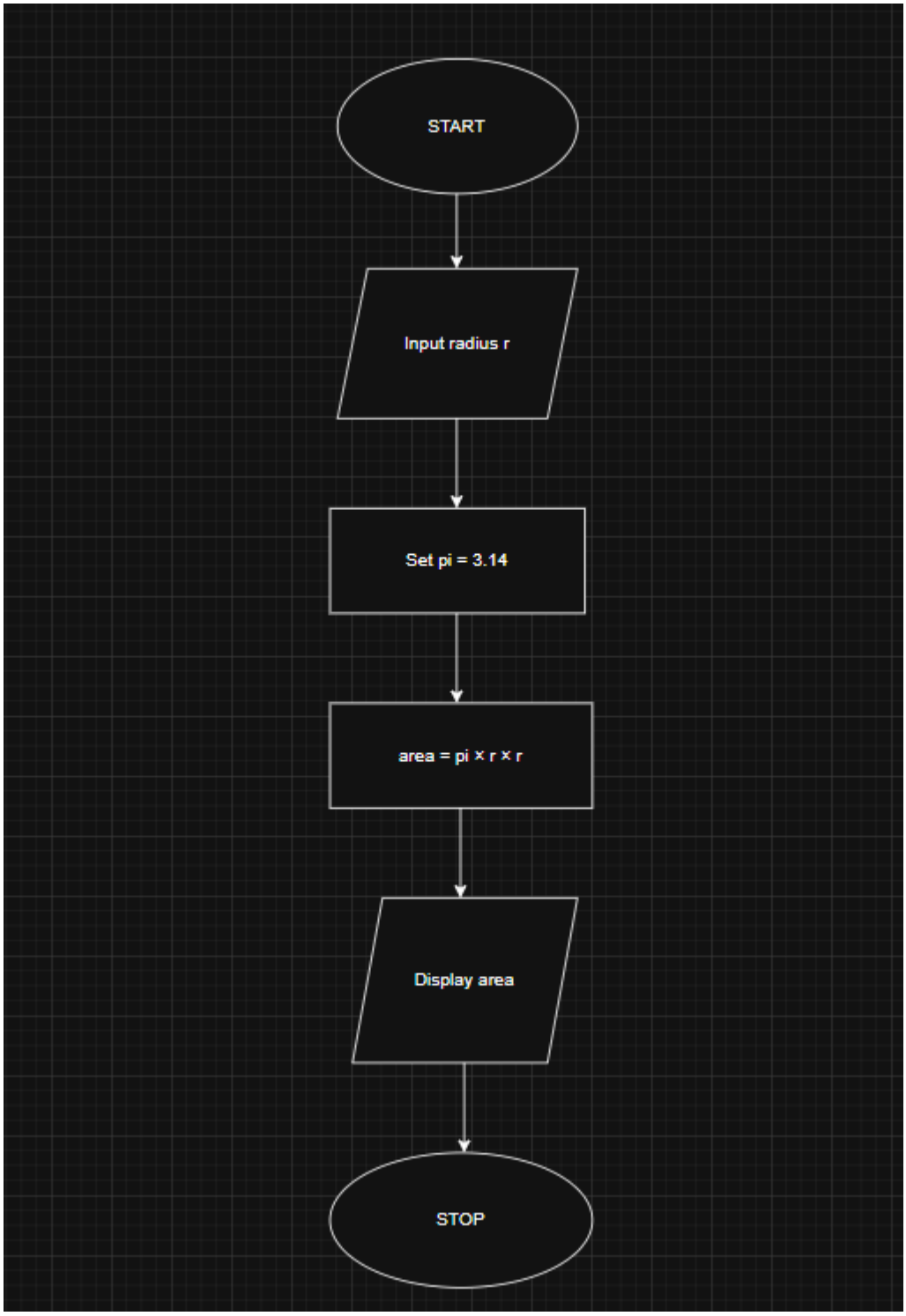
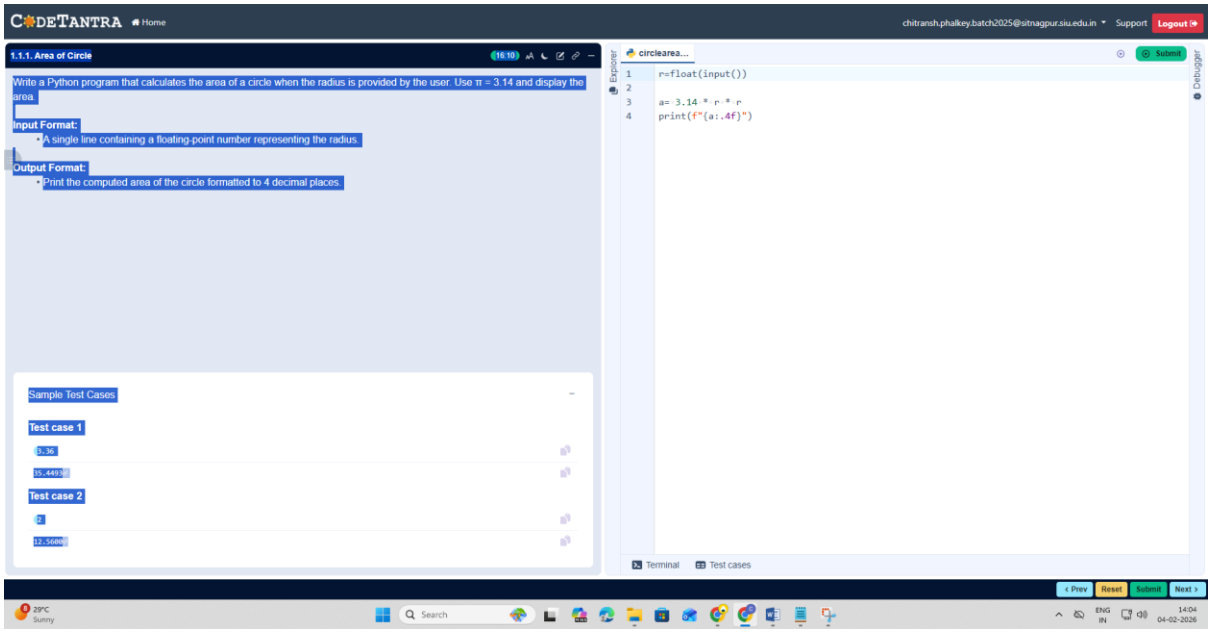
Algorithm

Algorithm to Calculate Area of a Circle

1. Start
2. Input the radius `r`
3. Assign the value of pi as 3.14
4. Calculate the area using the formula:
   Area = pi × r × r
5. Display the area of the circle up to 4 decimal places
6. Stop


START
Input radius r
Set pi = 3.14
area = pi × r × r
Display area
STOP



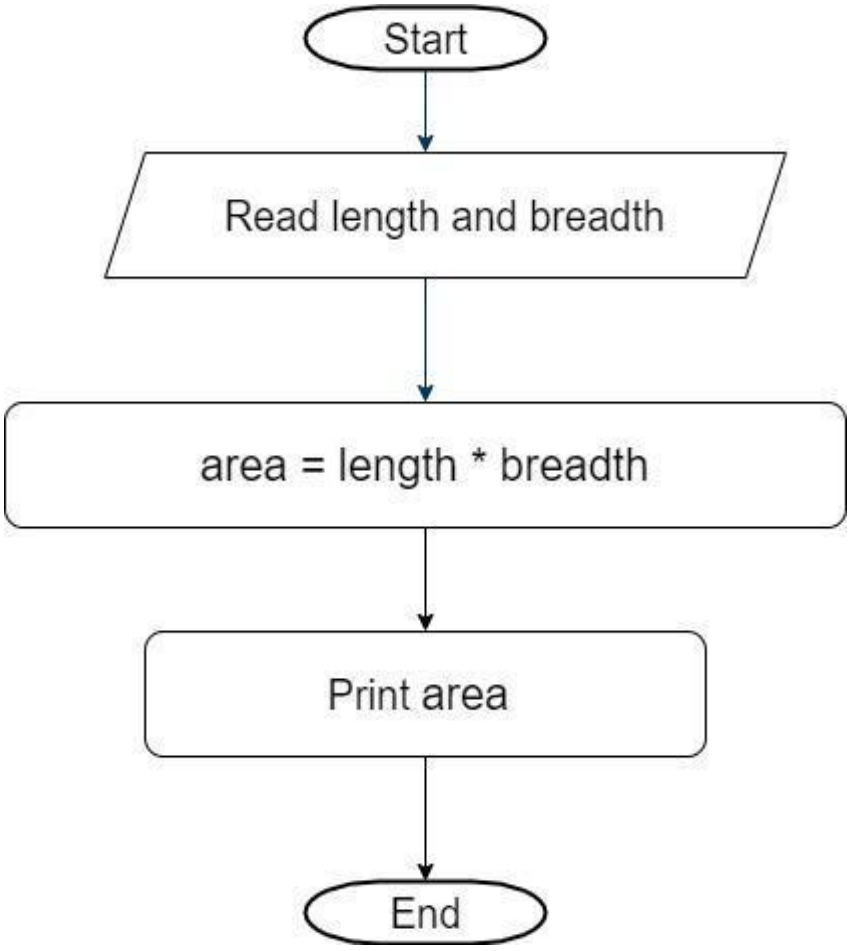
1.1.2. Area of Rectangle

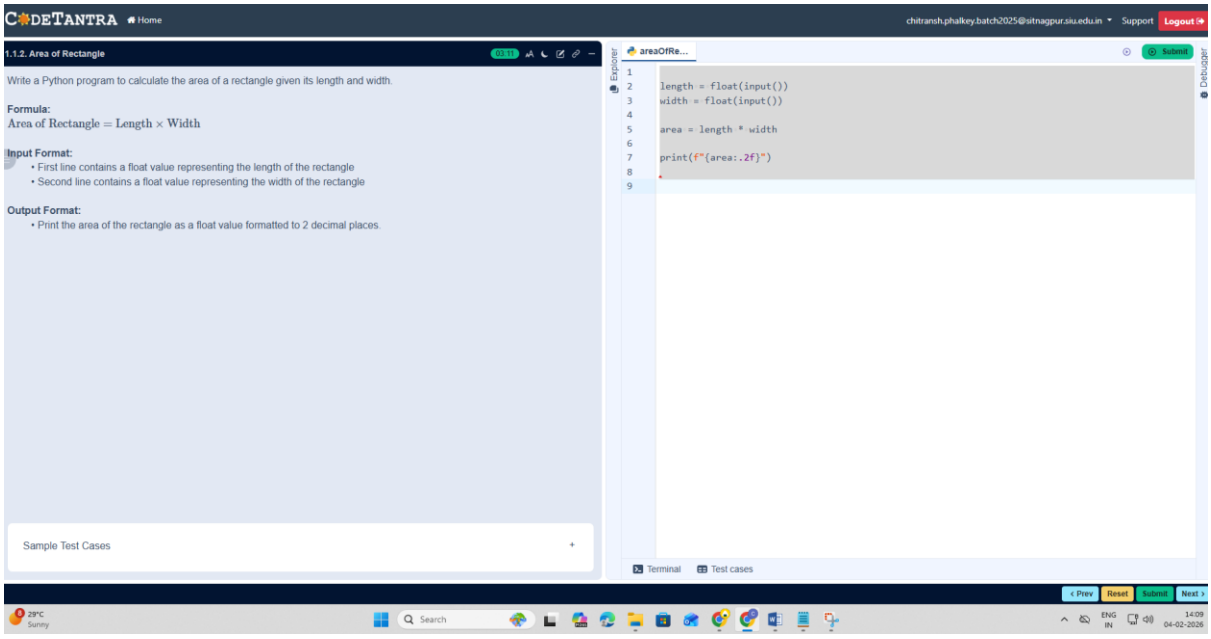
Algorithm

Algorithm to Calculate Area of a Rectangle

1. **Start**
2. Read the value of **length** (as a floating-point number)
3. Read the value of **width** (as a floating-point number)
4. Calculate **area = length × width**
5. Display the **area** formatted to **2 decimal places**
6. **Stop**

FLOWCHAR


Start
Read length and breadth
area = length * breadth
Print area
End


CODETANTRA
Home
chitransh.phalkey.batch2025@sitnagpur.siu.edu.in
Support
Logout
1.1.2. Area of Rectangle
Write a Python program to calculate the area of a rectangle given its length and width.
Formula:
Area of Rectangle = Length × Width
Input Format:
• First line contains a float value representing the length of the rectangle
• Second line contains a float value representing the width of the rectangle
Output Format:
• Print the area of the rectangle as a float value formatted to 2 decimal places.
Sample Test Cases
areaOfRe...
Submit
length = float(input())
width = float(input())
area = length * width
print(f"{area:.2f}")
Terminal
Test cases
Prev
Reset
Submit
Next

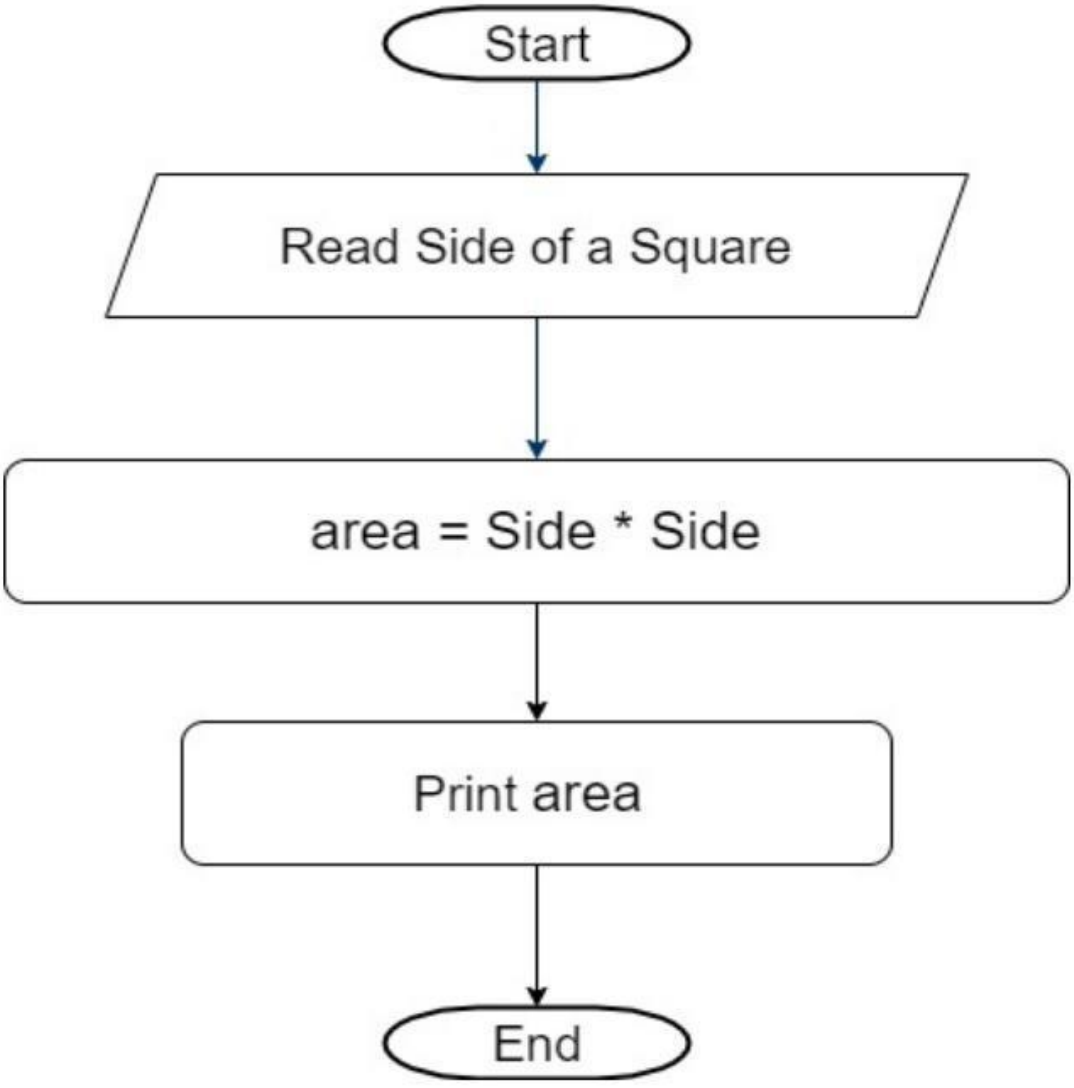
1.1.3. Calculate Area of the Square

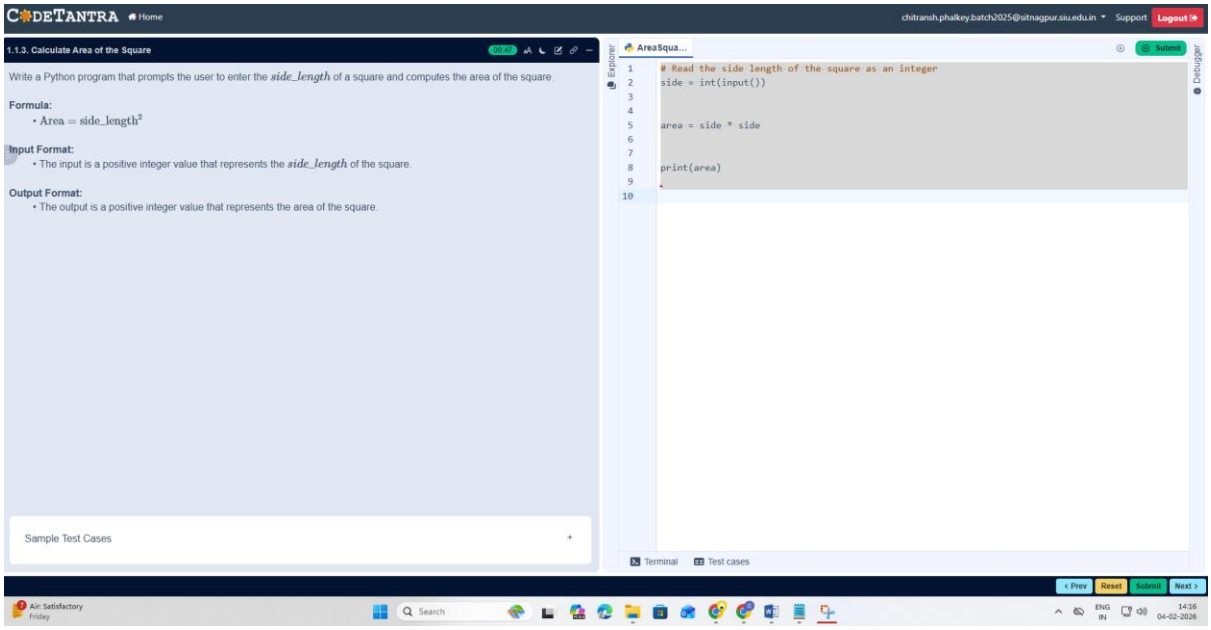
ALGORITHM

Algorithm: Area of a Square

1. **Start**
2.
3. Read the value of **side** as an integer
4.
5. Calculate **area = side × side**
6.
7. Print the value of **area**
8. **Stop**

Flowchart





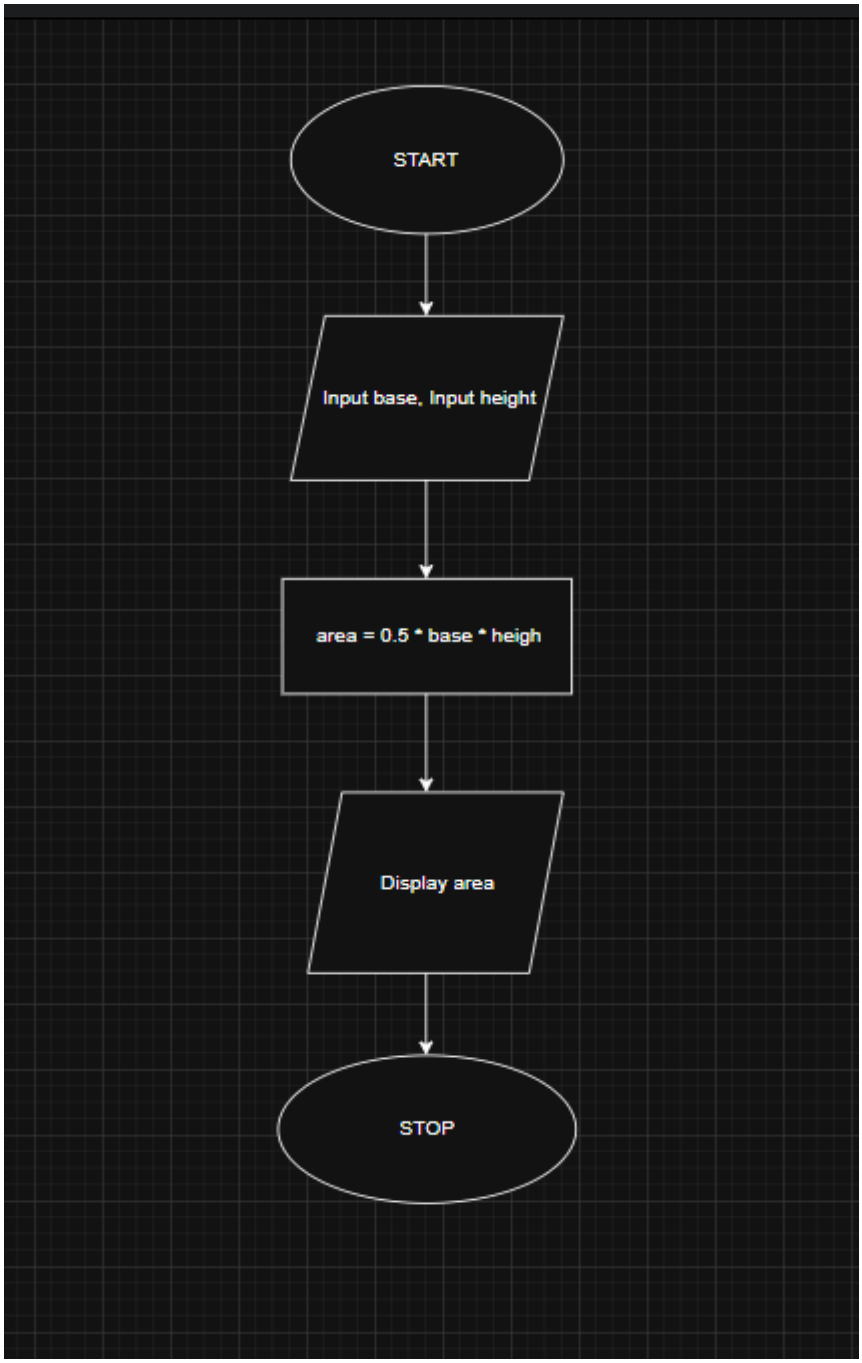
1.1.4. Area of Triangle

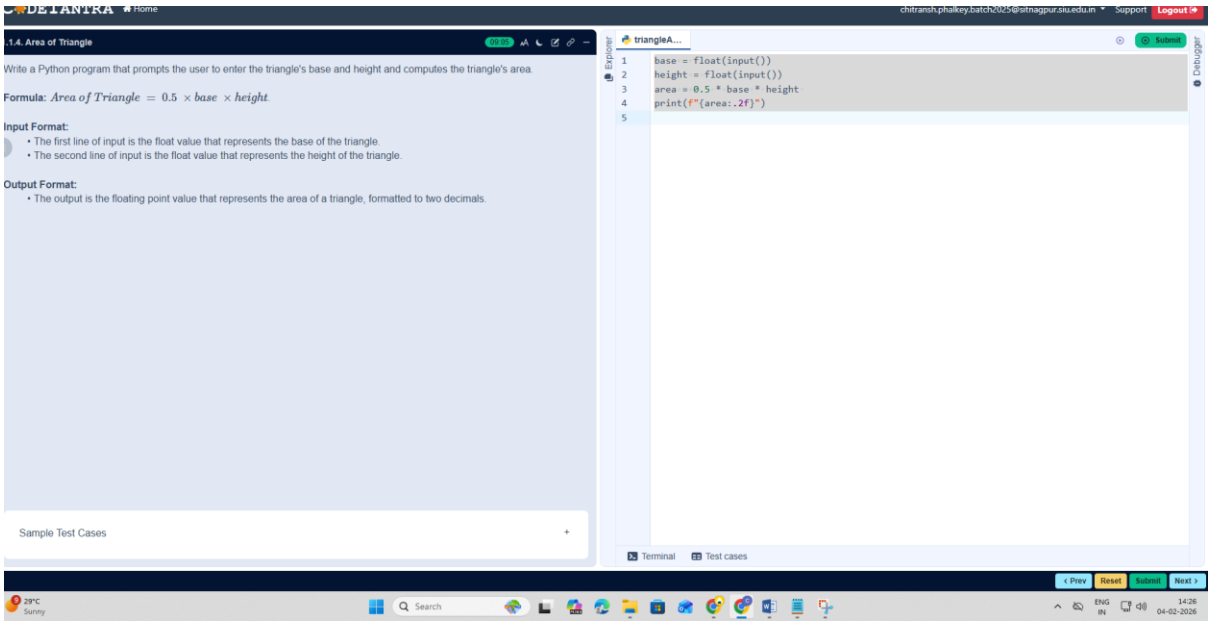
ALGORITHM

Algorithm: Area of a Triangle

1. **Start**
2.
3. Read the value of **base** as a floating-point number
4.
5. Read the value of **height** as a floating-point number
6.
7. Calculate **area = 0.5 × base × height**
8. Print the value of **area** formatted to **2 decimal places**
9. **Stop**

Flowchart


START
Input base, Input height
area = 0.5 * base * heigh
Display area
STOP



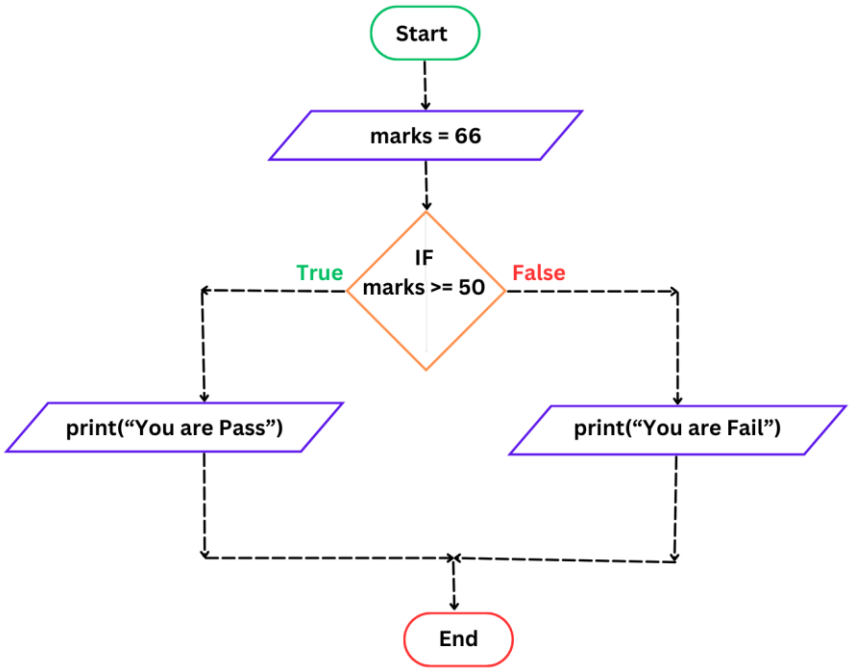
1.1.5. Student Pass or Fail Status

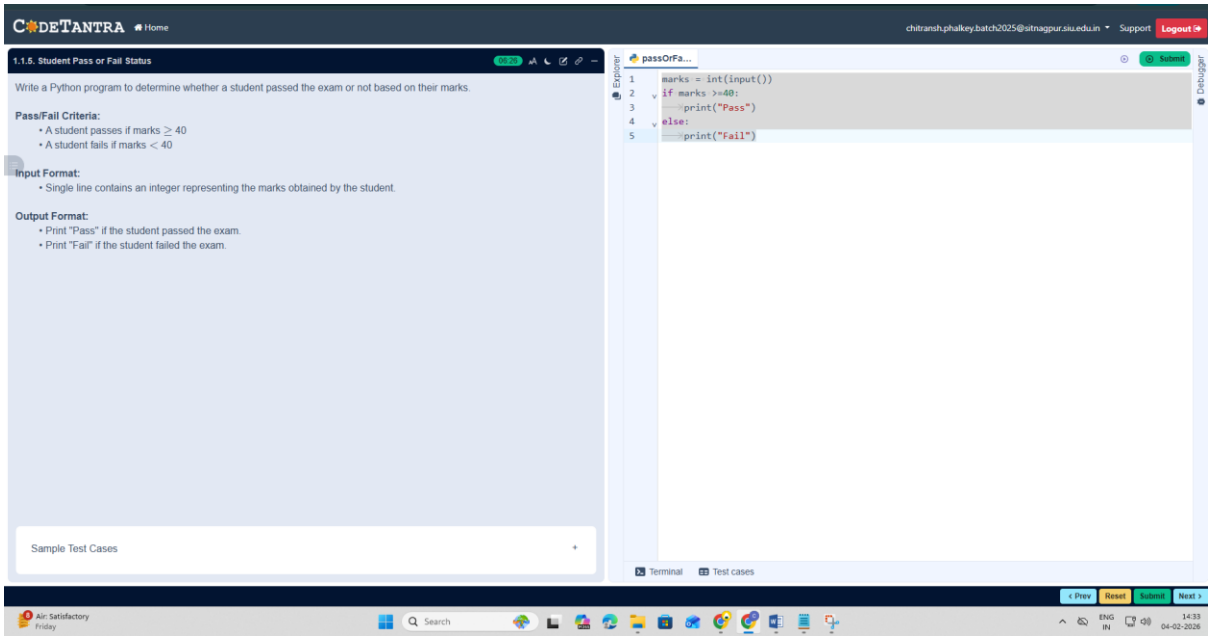
ALGORITHM

📌 Algorithm to Check Pass or Fail

1. **Start**
2. Input **marks** as an integer
3. If **marks ≥ 0** then
   Print `"Pass"`
   Else
   Print `"Fail"`
4. **Stop**

FLOWCHART:


Start
marks = 66
IF
marks >= 50
True
False
print("You are Pass")
print("You are Fail")
End


CODETANTRA
Home
chitransh.phalkey.batch2025@sitnagpur.siu.edu.in
Support
Logout
1.1.5. Student Pass or Fail Status
Write a Python program to determine whether a student passed the exam or not based on their marks.
Pass/Fail Criteria:
• A student passes if marks ≥ 40
• A student fails if marks < 40
Input Format:
• Single line contains an integer representing the marks obtained by the student.
Output Format:
• Print "Pass" if the student passed the exam.
• Print "Fail" if the student failed the exam.
Sample Test Cases
passOrFa...
Submit
marks = int(input())
if marks >=40:
print("Pass")
else:
print("Fail")
Terminal
Test cases
Prev
Reset
Submit
Next