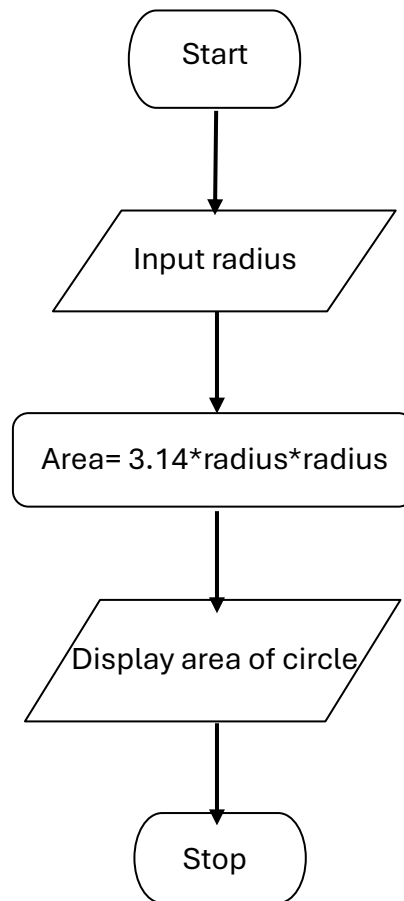


Flow chart

1.1.1



Algorithm: -

1. Start
2. Input radius
3. Calculate the area using the formula:
$$\text{area} = 3.14 * \text{radius} * \text{radius}$$
4. Display the calculated area up to 4 decimal places.
5. Stop

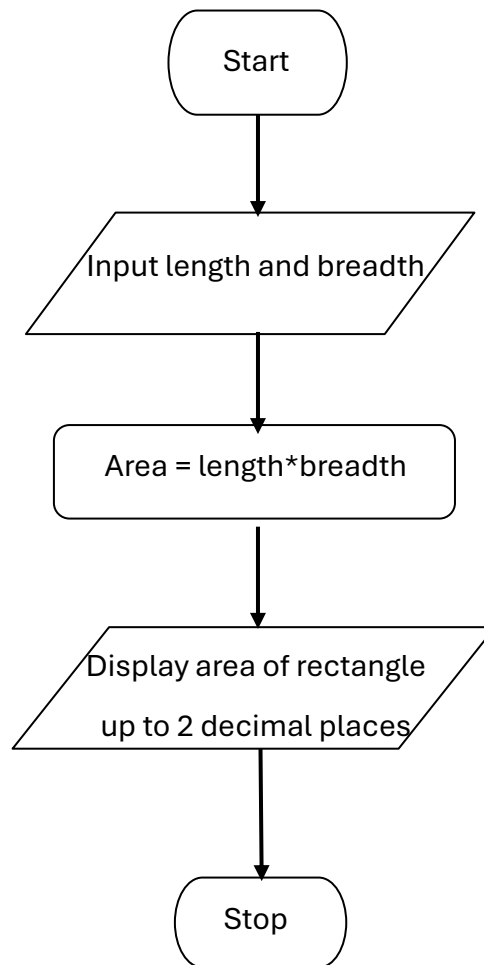
The screenshot shows the CodeTANTRA IDE interface. The left sidebar contains the problem description for '1.1.1. Area of Circle', which asks for a Python program to calculate the area of a circle given a radius. The main editor area shows the following Python code:

```
1 radius = float(input())
2 area = 3.14*radius*radius
3 print(f"area:.4f")
```

The bottom of the interface includes a 'Terminal' and 'Test cases' section, and navigation buttons like '< Prev', 'Reset', 'Submit', and 'Next >'.

Flow chart

1.1.2



Algorithm: -

1. Start
2. Input length and breadth
3. Calculate the area using the formula:
$$\text{area} = \text{length} * \text{breadth}$$
4. Display the calculated area up to 2 decimal places.
5. Stop

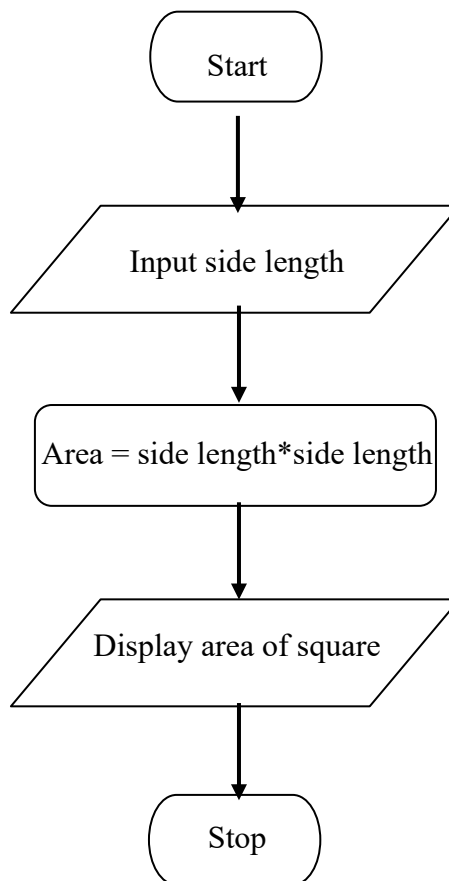
The screenshot shows the CODETANTRA online IDE interface. On the left, the problem description for '1.1.2. Area of Rectangle' is displayed, including the formula $\text{Area of Rectangle} = \text{Length} \times \text{Width}$ and input/output format instructions. The main editor area on the right contains the following Python code:

```
1 # Type Content here...
2 length = float(input())
3 breadth = float(input())
4 area = length*breadth
5 print(f"area:.2f")
```

At the bottom, there are buttons for '< Prev', 'Reset', 'Submit', and 'Next >'. The top navigation bar includes the CODETANTRA logo, a home icon, and user information.

Flow chart

1.1.3



Algorithm: -

1. Start
2. Input side length
3. Calculate the area using the formula:
$$\text{area} = \text{side length} * \text{side length}$$
4. Display the calculated area.
5. Stop

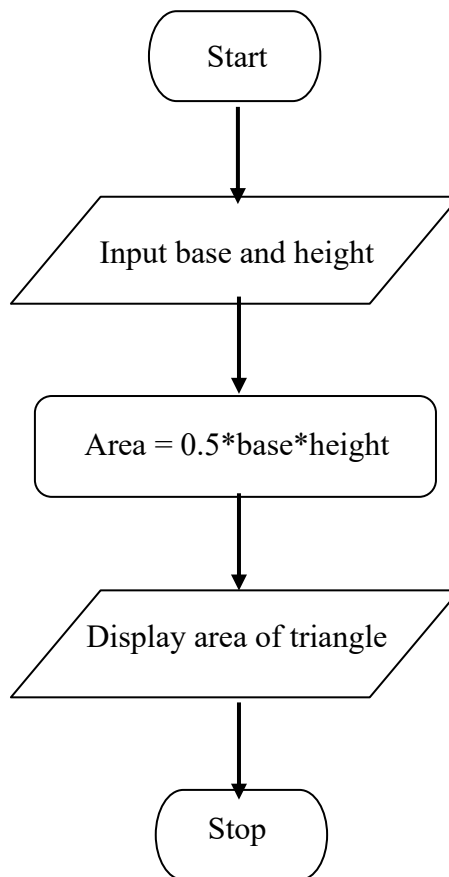
The screenshot shows the CODETANTRA IDE interface. The left sidebar contains the problem description for '1.1.3. Calculate Area of the Square', which asks for a Python program to calculate the area of a square given its side length. It includes the formula $\text{Area} = \text{side_length}^2$ and input/output format details. The main editor area shows a Python script named 'AreaSqua...' with the following code:

```
1 # Write your code here...
2 side_length = int(input())
3 area = side_length * side_length
4 print(area)
```

The bottom of the interface features a 'Terminal' and 'Test cases' section, along with navigation buttons: '< Prev', 'Reset', 'Submit', and 'Next >'.

Flow chart

1.1.4



Algorithm: -

1. Start
2. Input base and height
3. Calculate the area using the formula:
$$\text{area} = 0.5 * \text{base} * \text{height}$$
4. Display the calculated area up to 2 decimal places.
5. Stop

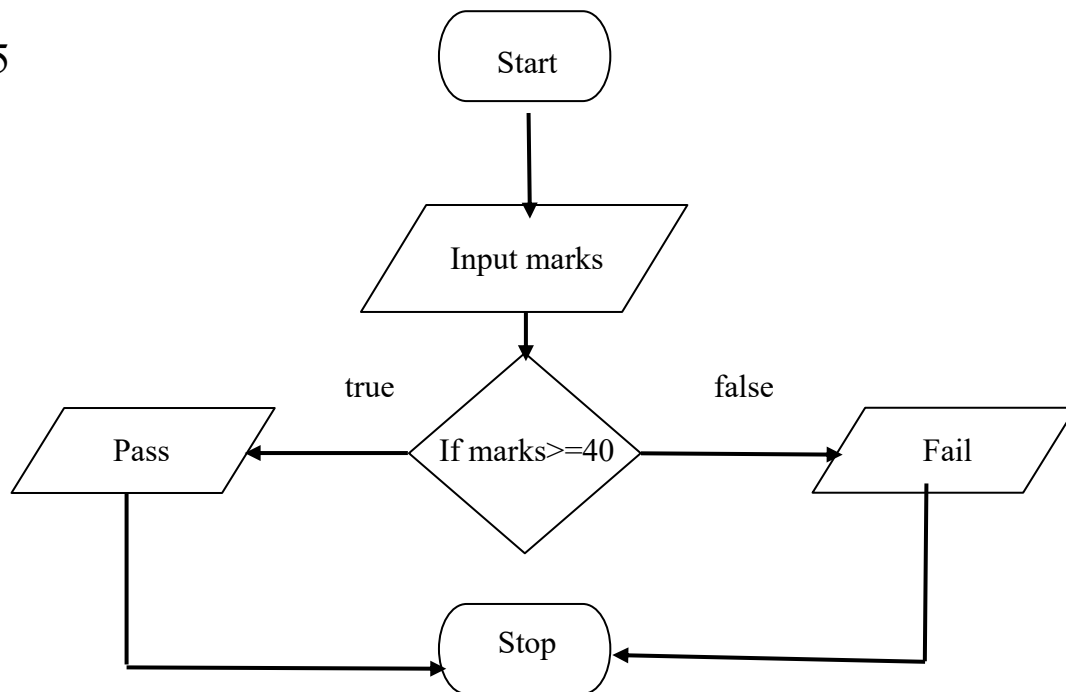
The screenshot shows the CODETANTRA IDE interface. On the left, the problem description for '1.1.4. Area of Triangle' is displayed, including the formula $\text{Area of Triangle} = 0.5 \times \text{base} \times \text{height}$ and input/output format instructions. The main editor on the right contains the following Python code:

```
1 # Write your code here...
2 base = float(input())
3 height = float(input())
4 area = 0.5*base*height
5 print(f"{area:.2f}")
```

The interface also includes a 'Submit' button, a 'Debugger' panel, and a 'Test cases' section at the bottom.

Flow chart

1.1.5



Algorithm: -

1. Start
2. Input marks
3. Check if the marks are greater than or equal to 40.
4. If the condition is true, display "Pass".
5. If the condition is false, display "Fail".
6. Stop

CODETANTRA Home

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1.1.5. Student Pass or Fail Status

05:18

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 +

```
1 # Type Content here...
2 marks = int(input())
3 if (marks >= 40):
4     print("Pass")
5 else:
6     print("Fail")
```

Terminal Test cases

< Prev Reset Submit Next >