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Experiment: 1

1.1.1 Area of Circle

A) Algorithm :

Step 1. Start

Step 2. Read radius (r) from user as a floating-point number

Step 3. Set pi = 3.14

Step 4. Compute area = pi * r * r

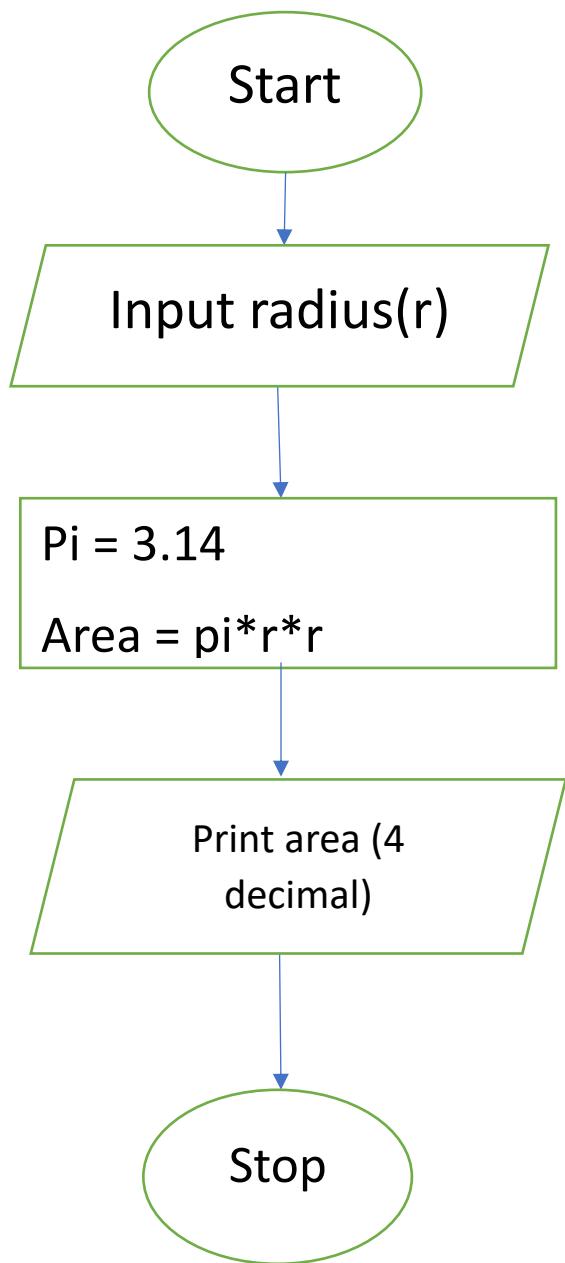
Step 5. Print area formatted to 4 decimal places

Step 6. Stop

B) Python Code:

```
radius = float(input())
pi = 3.14
area = pi * radius * radius
print(f"{area:.4f}")
```

C) Flowchart :



D) Output image:

The screenshot shows the CodeTantra IDE interface. The title bar says "CODETANTRA" and "Home". The user is logged in as "shreyash.girade.batch2025@sitnagpur.siu.edu.in".

The project name is "1.1.1. Area of Circle". The problem statement asks to write a Python program that calculates the area of a circle when the radius is provided by the user. It specifies using $\pi = 3.14$ and displaying the area.

Input Format:

- A single line containing a floating-point number representing the radius.

Output Format:

- Print the computed area of the circle formatted to 4 decimal places.

The code editor contains the following Python code:

```
a=float(input())
area=3.14*a*a
print(f"{area:.4f}")
```

The code is submitted and passed two test cases. The results are shown in the "Test Cases" section:

- Test case 1**:
Expected output: 3.14
Actual output: 3.14
- Test case 2**:
Expected output: 35.4493
Actual output: 35.4493