

Prn: 25070521171

Name: shreyash girade

Experiment: 1

1.1.1 Area of Circle

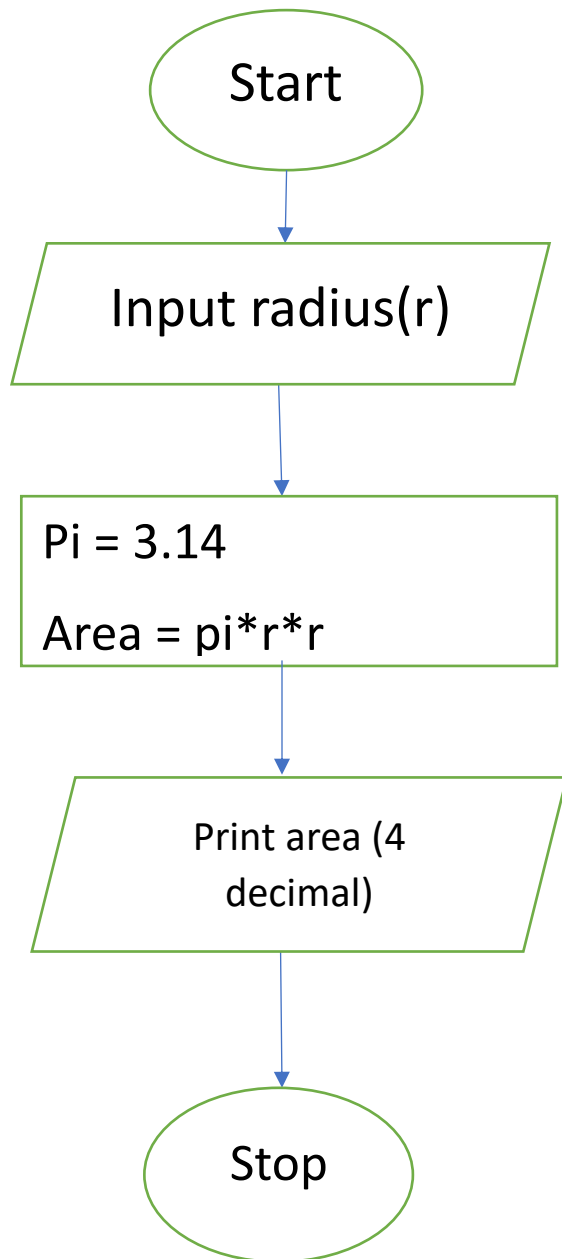
A) Algorithm :

- Step 1. Start
- Step 2. Read radius (r) from user as a floating-point number
- Step 3. Set $\pi = 3.14$
- Step 4. Compute $\text{area} = \pi * r * r$
- 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 displays the CODETANTRA online coding environment. The interface includes a header with the logo, a home button, a user profile, and a logout button. The main workspace is divided into several sections:

- Problem Statement:** "1.1.1: Area of Circle" with a description: "Write a Python program that calculates the area of a circle when the radius is provided by the user. Use $\pi = 3.14$ and display 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."
- Sample Test Cases:** A section for testing the code.
- Code Editor:** Contains the following Python code:

```
1 a=float(input())
2 area=3.14*a*a
3 print(f"{area:.4f}")
```
- Test Results:** Shows performance metrics and test case outcomes:
 - Average time: 0.005 s (5.50 ms)
 - Maximum time: 0.009 s (9.00 ms)
 - 2 out of 2 shown test case(s) passed
 - 2 out of 2 hidden test case(s) passed
- Test Case Details:**
 - Test case 1:** Expected output: 3.36, Actual output: 3.36. (35,4493)
 - Test case 2:** (35,4493)