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Experiment: 1

1.1.1 Area of Circle

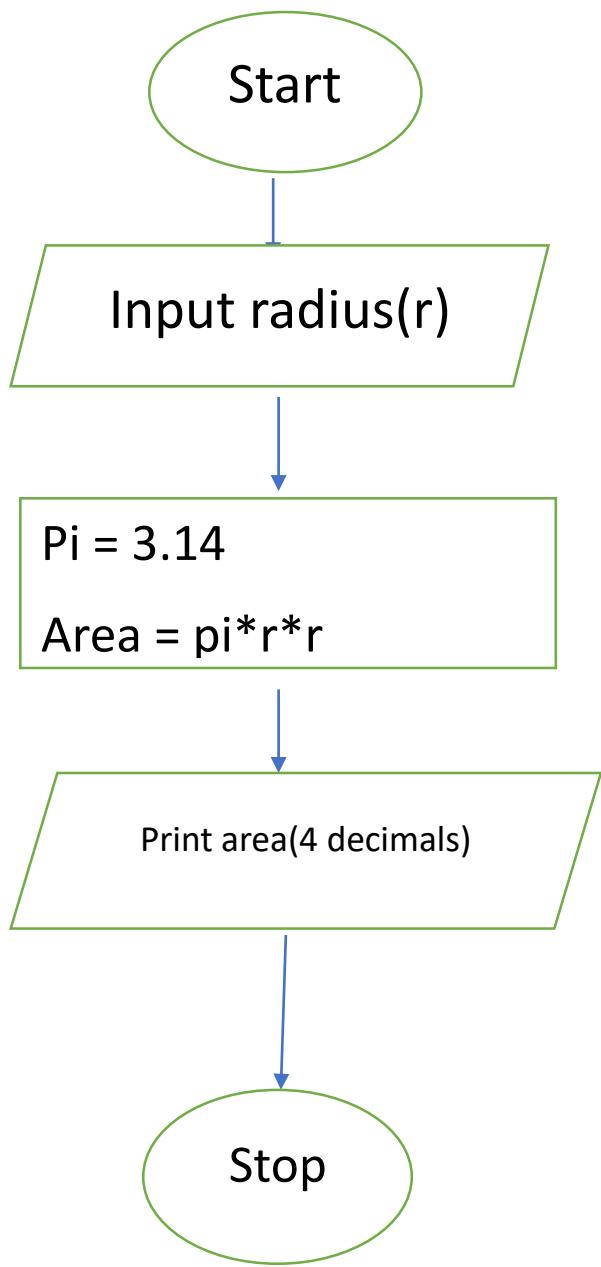
A) Algorithm :

- step 1. Start
- step 2. Read radius (r) from user as a floating-point number
- step 3. Set $\pi = 3.14$
- step 4. Compute $\text{area} = \pi * r * r$
- 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 shows a CodeTantra IDE interface for a task titled "1.1.1. Area of Circle".

Task 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.

Code Snippet:

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

Test Results:

Average time: 0.005 s | Maximum time: 0.009 s
5.50 ms | 9.00 ms

2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test Case 1: Expected output: 3.14 | Actual output: 3.14

Test Case 2: Expected output: 35.4493 | Actual output: 35.4493