

Experiment - 1

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PRN :

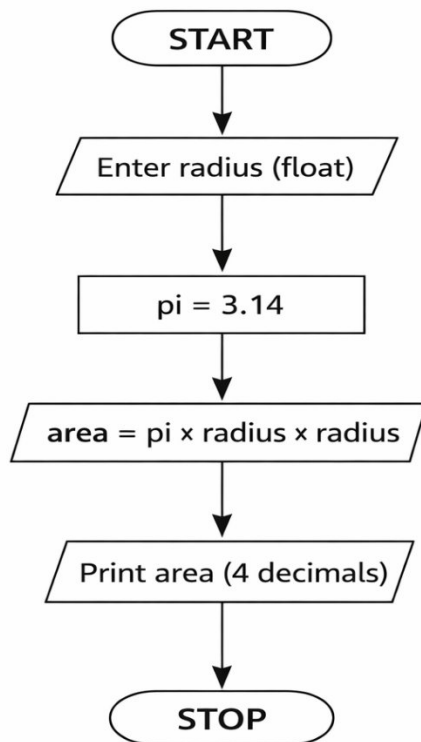
1.1.1 Area of a circle

Algorithm

1. Start
2. Read the radius value from the user.
3. Set the value of π (pi) as 3.14.
4. Calculate area using formula . Area = π x radius x radius
5. Display the area formatted to 4 decimal places.
6. Stop

Flowchart

Experiment - 1



Python code

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

Execution

Experiment - 1

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1.1.1. Area of Circle

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

circlearea...

```
1 r=float(input())
2 pi=3.14
3 area=pi*r*r
4 print(f"{area:.4f}")
```

Average time: 0.007 s (7.00 ms)

Maximum time: 0.013 s (13.00 ms)

2 out of 2 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 1 (1.36 s)

Expected output: 3.36

Actual output: 3.36

35.4493

Test case 2 (4.15 s)

Terminal

Test cases

< Prev

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