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# Shanice Skanes
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# P2LAB1
# This program calculates the diameter, circumference, and area of a circle based on a radius provided by the user. It then displays these
values formatted to one, two, and three decimal places respectively.

import math

radius = float(input("What is the radius of the circle? "))

diameter = 2 * radius
circumference = 2 * math.pi * radius
area = math.pi * radius ** 2

print(f"The diameter of the circle is {diameter:.1f}")
print(f"The circumference of the circle is {circumference:.2f}")
print(f"The area of the circle is {area:.3f}")
```