

QUESTION 1: THE FOLLOWING IS A PROBLEM STATEMENT:

Develop a program that calculates the area of a circle.

The program should prompt the user for the radius.

Assume the user enters 5.

Expected output:

The area of the circle is 78.53981633974483

Actual output:

The area of the circle is 78.53981633974483

What changes to the code are needed to produce the expected output? (Select all that apply.)

The format of the output is incorrect. (Select all that apply.)

- The output is not rounded to the correct number of decimal places.
- The output is not formatted with commas as thousands separators.
- The output is not formatted with a colon as a thousands separator.
- The output is not formatted with a period as a thousands separator.
- The output is not formatted with a space as a thousands separator.

The output is not formatted with a colon as a thousands separator. (Select all that apply.)

Expected output:

The area of the circle is 78,539.81633974483

Actual output:

The area of the circle is 78.53981633974483

What changes to the code are needed to produce the expected output? (Select all that apply.)

Expected output:

The area of the circle is 78,539.81633974483

Actual output:

Expected output:

The area of the circle is 78,539.81633974483