

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 a value of 5.0.

The program should calculate the area of the circle.

The program should display the area of the circle.

Write the program in C++.

Use the following code as a starting point:

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The following code is a starting point for the program. Complete the program by adding the necessary code to calculate the area of the circle.

```
#include <iostream>
using namespace std;

int main()
{
    double radius;
    double area;

    // Prompt the user for the radius
    cout << "Enter the radius: ";
    cin >> radius;

    // Calculate the area of the circle
    area = 3.14159 * radius * radius;

    // Display the area of the circle
    cout << "The area of the circle is: " << area << endl;

    return 0;
}
```

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