

First C++ Program

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

// Circle class declaration
class Circle
{ private:
    double radius;

public:
    void setRadius(double r)
    { radius = r; }

    double calcArea()
    { return 3.14 * pow(radius, 2); }
};
```

```
int main()
{
    double radius;

    // Define 2 Circle objects
    Circle circle1, circle2;

    cout << "What is the radius of the first circle? ";
    cin >> radius;
    circle1.setRadius(radius);

    cout << "What is the radius of the second circle? ";
    cin >> radius;
    circle2.setRadius(radius);

    // Call the calcArea function for each circle and display the returned result
    cout << "The area of circle1 is " << circle1.calcArea() << endl;
    cout << "The area of circle2 is " << circle2.calcArea() << endl;

    cin.get();
    return 0;
}
```