```cpp
//  Filename: Lab2_1.cpp
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//  Date: 1/23/2020
//  Compiler Used: MS Visual Studio 2017
//  Purpose: Calculate the area and volume
//           of a cylinder from its radius

#include <iostream>;
#include <cmath>;

using namespace std;

int main() {

	const double PI = 3.14159;
	double radius = 0.0;
	double length = 0.0;

	//  Input
	// Get input values for radius and length
	cout << "Enter the radius and length of the cylinder:" ;
	cin >> radius >> length;
	//  Processing
	//  Calculate the volume and the area
	double area = pow(radius, 2.0) * PI;
	double volume = area * length;
	//  Ouput
	//  Output the calculated area and volume
	cout << "The area is " << area << endl;
	cout << "The volume is " << volume << endl;

	//Indicates that the program ran without any errors
	return 0;
};
```

```
Enter the radius and length of the cylinder:5.5 12
The area is 95.0331
The volume is 1140.4
```