Introduction to C++
LAB # 01

Spring 2022

CSE-102L COMPUTER PROGRAMMING LAB

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Section: C

"On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work.'

Student Signature: _____

Submitted to:

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(July 2022)

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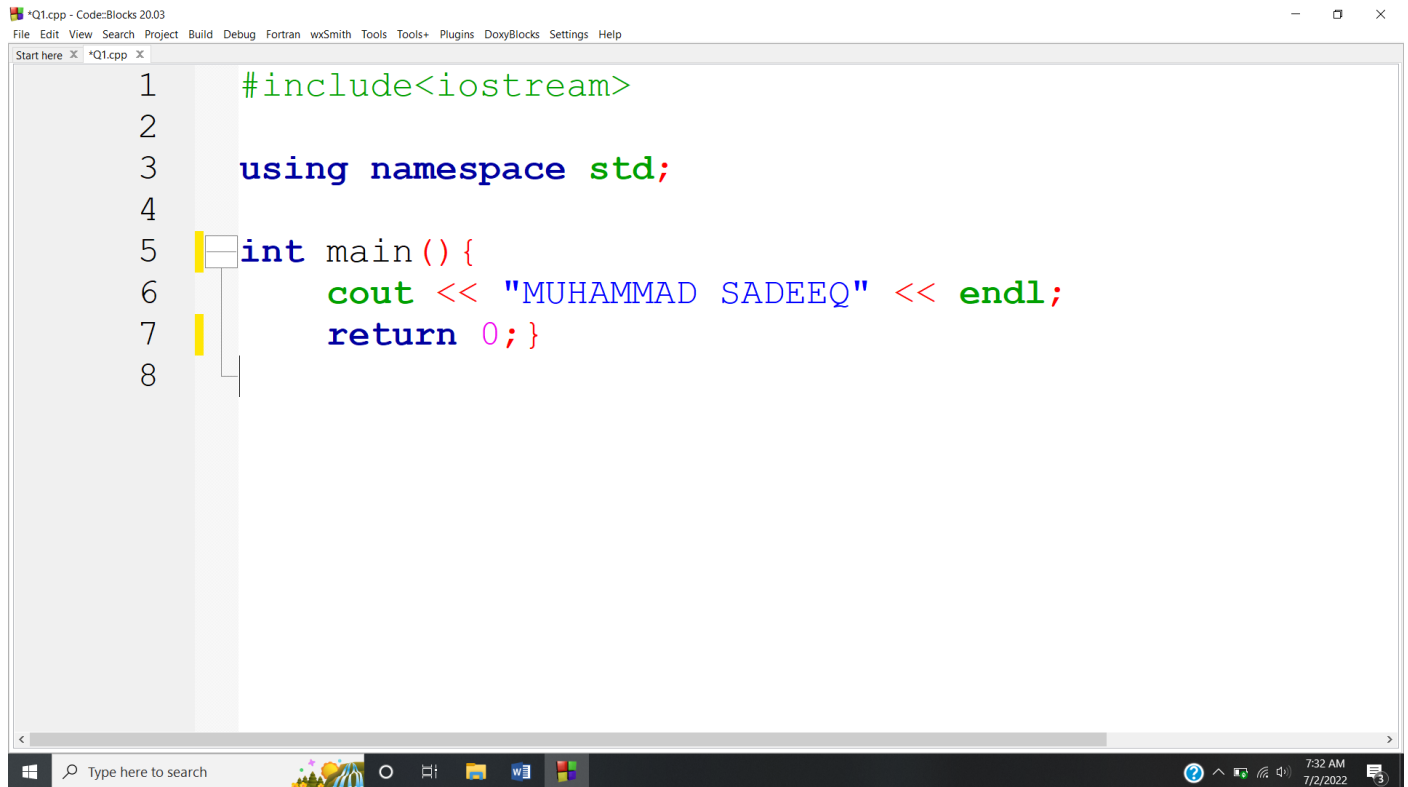
Lab 1: Introduction to C++

Objectives

- To be able to install and use Dev C++ IDE for compiling C++ programs
- To be familiar with syntax and structure of C++ programming
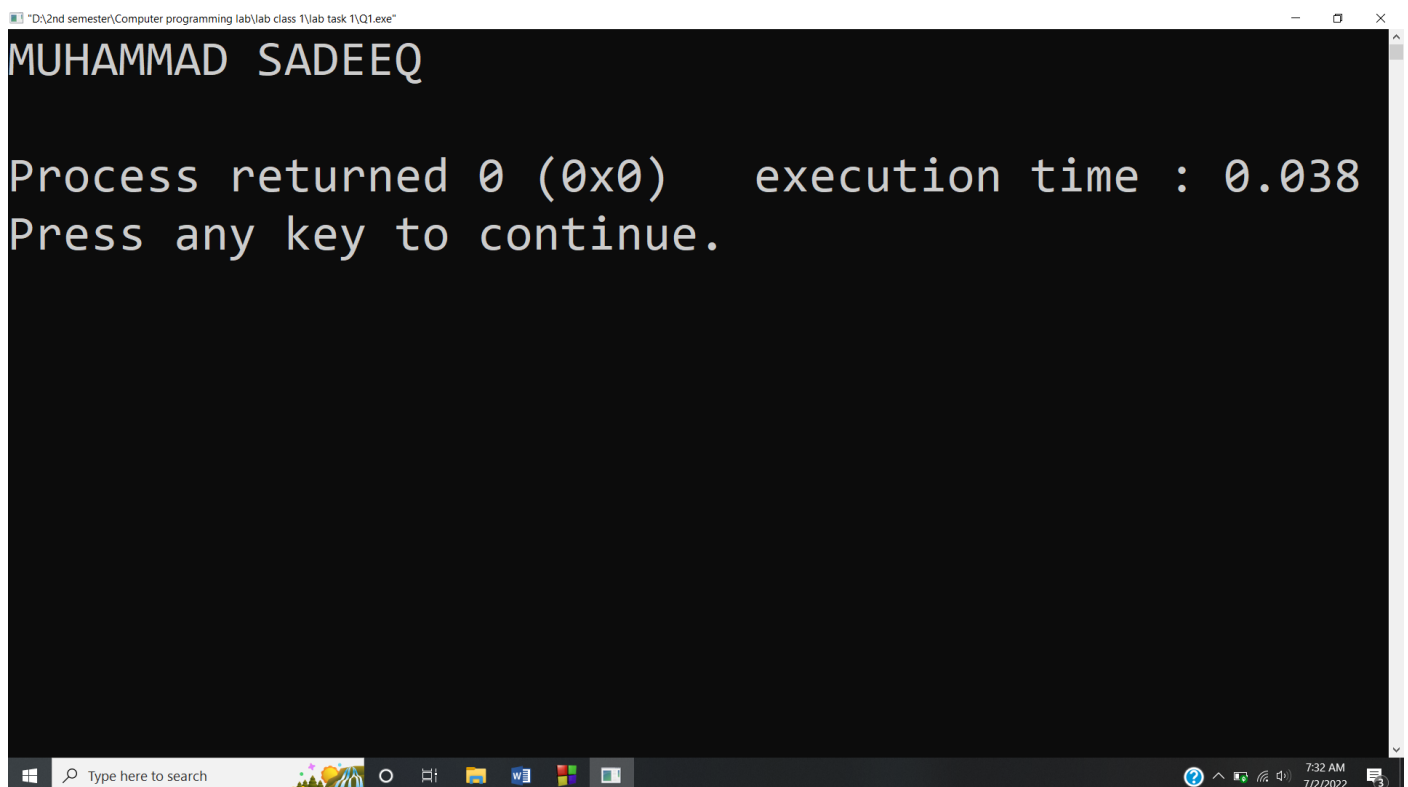
Topics Discussed in Lab # 1

- Simple C++ Program and a Typical C++ Development Environment
- Test-Driving a C++
- Libraries
- Preprocessor Directives
- Variables and Data Types

Lab Tasks:

1. Write a program to display your name on console.
2. Write a program to add two numbers (6+3=) and display its sum.
3. Write a program to multiply three numbers (5x5x5=) and display its product.
4. Write a program to find the mod of (5%2=) and (6%2=)
5. Write a program to calculate area of a circle having its radius (ask user to input radius).
6. Write a program to calculate area of an ellipse having its axes (ask user to input values of major, minor)

COMPUTER PROGRAMMING LAB # 1

Answer #1

CODE:

```cpp
#include<iostream>

using namespace std;

int main(){
    cout << "MUHAMMAD SADEEQ" << endl;
    return 0;}
```
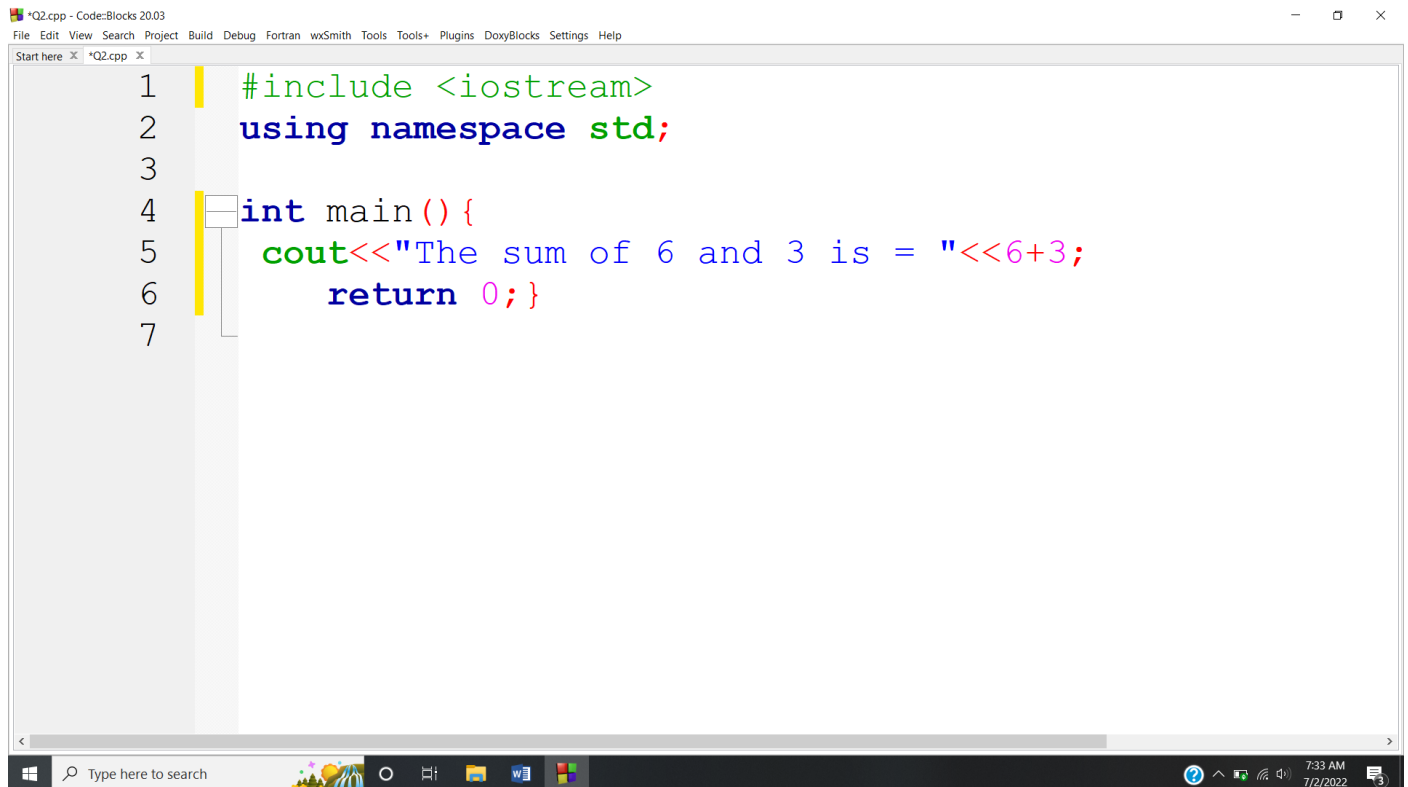
OUTPUT:

```
MUHAMMAD SADEEQ

Process returned 0 (0x0)   execution time : 0.038
Press any key to continue.
```

Answer #2
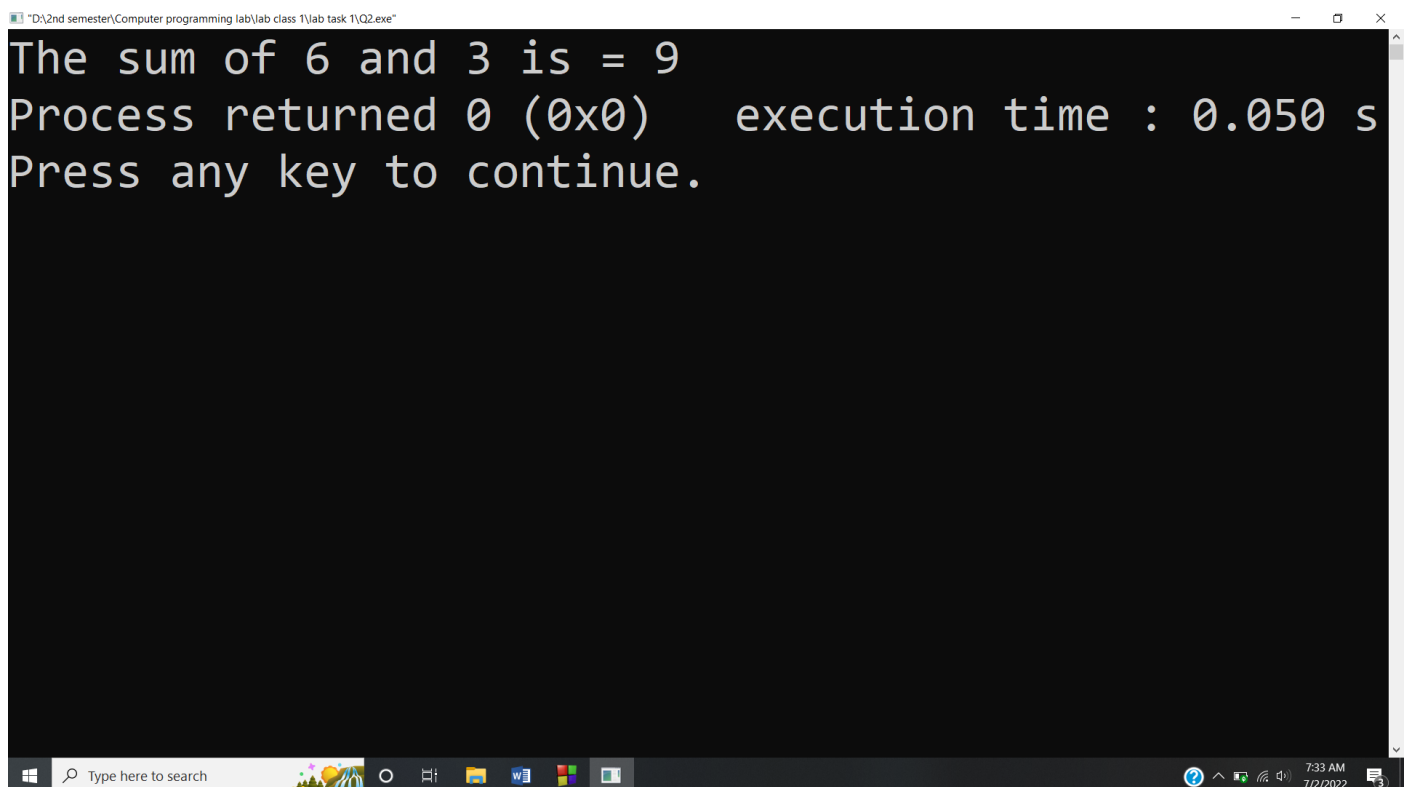
CODE:

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

int main(){
  cout<<"The sum of 6 and 3 is = "<<6+3;
      return 0;}
```
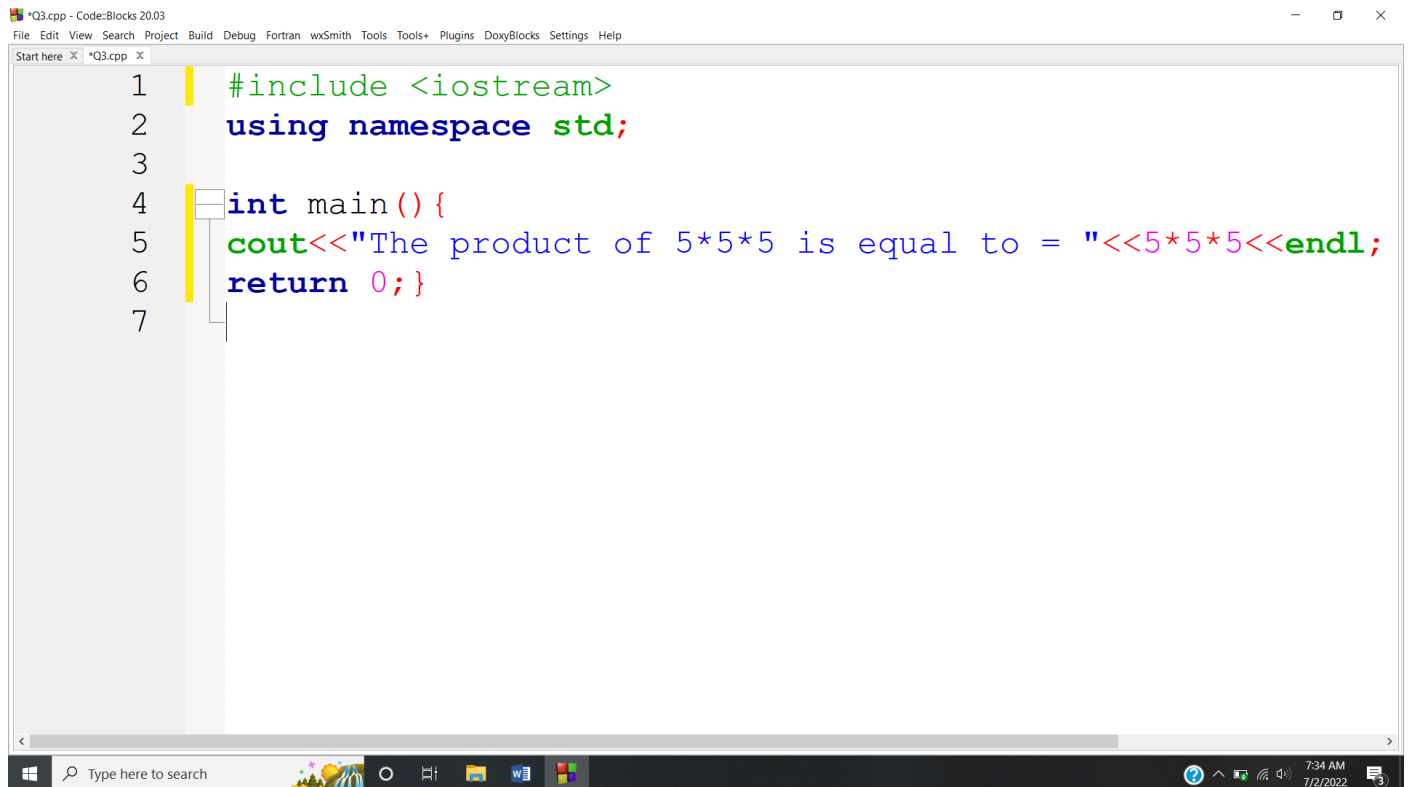
OUTPUT:

```
The sum of 6 and 3 is = 9
Process returned 0 (0x0)   execution time : 0.050 s
Press any key to continue.
```
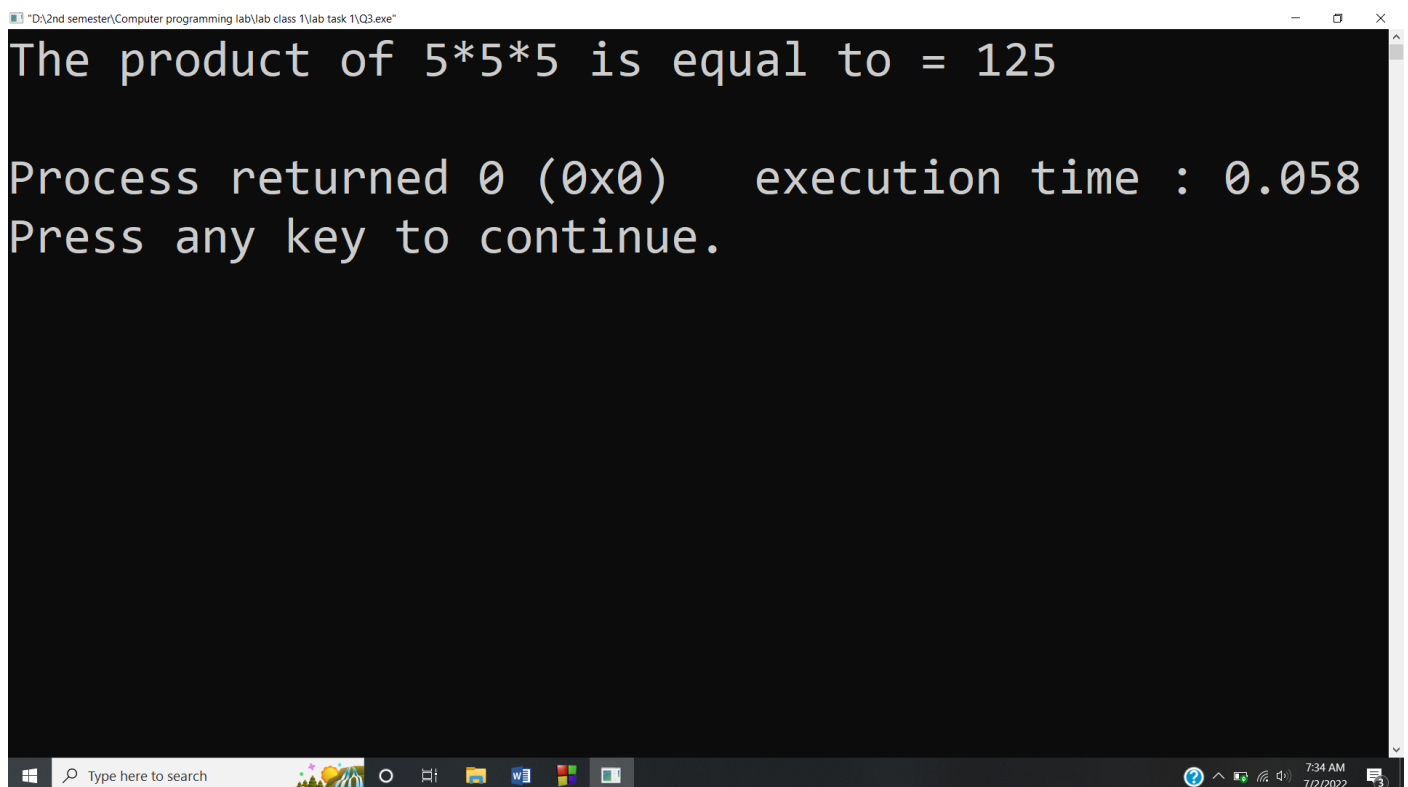
Answer #3

CODE:

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

int main(){
cout<<"The product of 5*5*5 is equal to = "<<5*5*5<<endl;
return 0;}
```
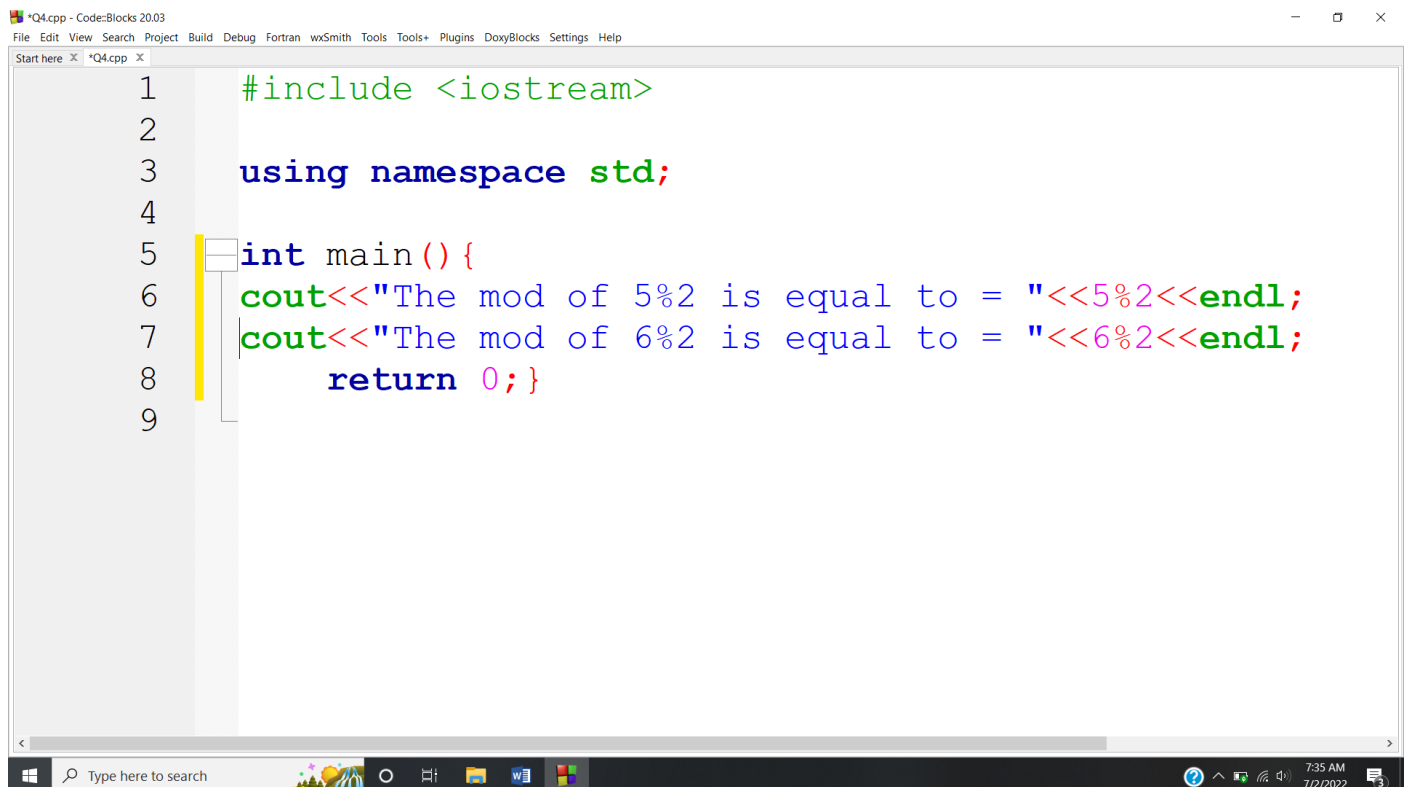
OUTPUT:

```
The product of 5*5*5 is equal to = 125


Process returned 0 (0x0)   execution time : 0.058
Press any key to continue.
```

Answer #4

CODE:

```cpp
#include <iostream>

using namespace std;

int main(){
cout<<"The mod of 5%2 is equal to = "<<5%2<<endl;
cout<<"The mod of 6%2 is equal to = "<<6%2<<endl;
    return 0;}
```
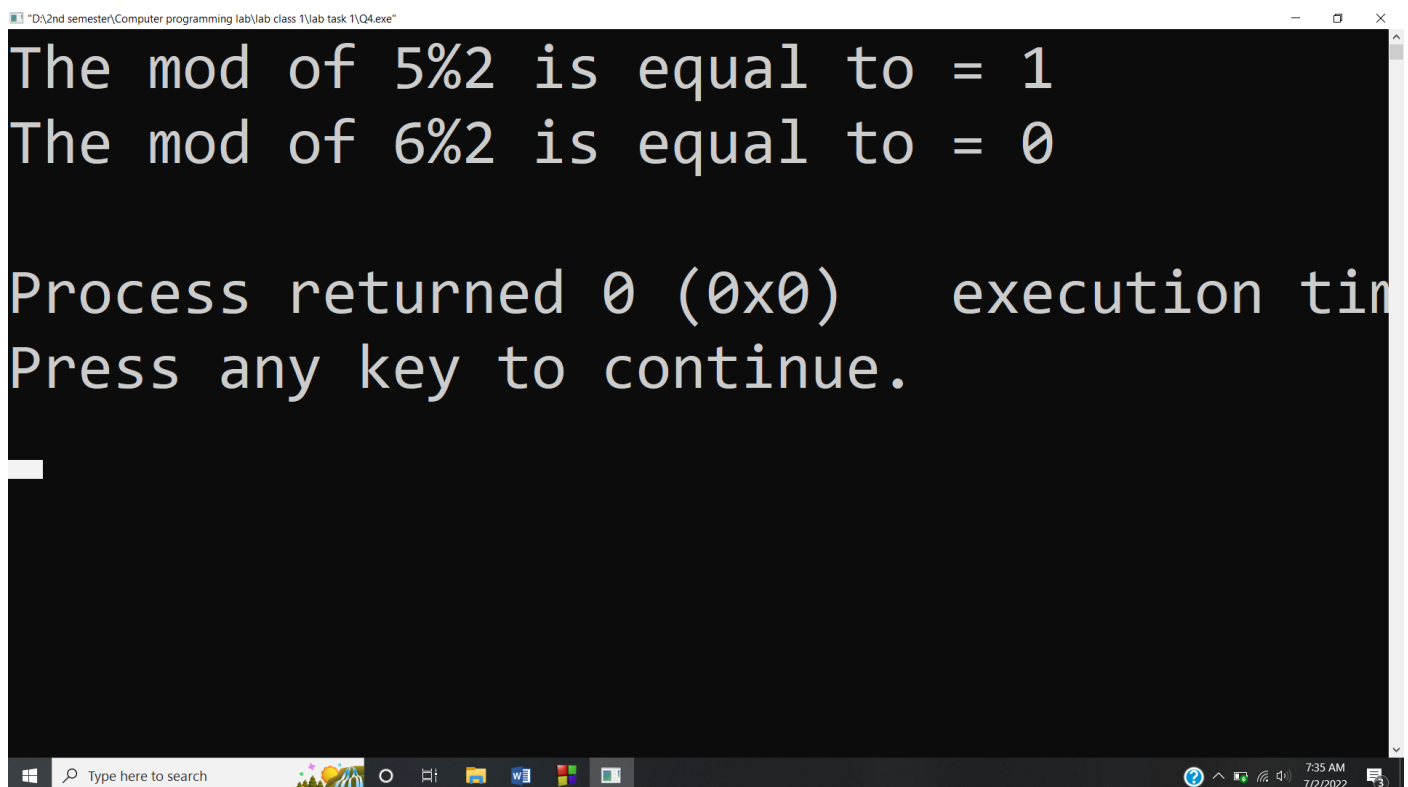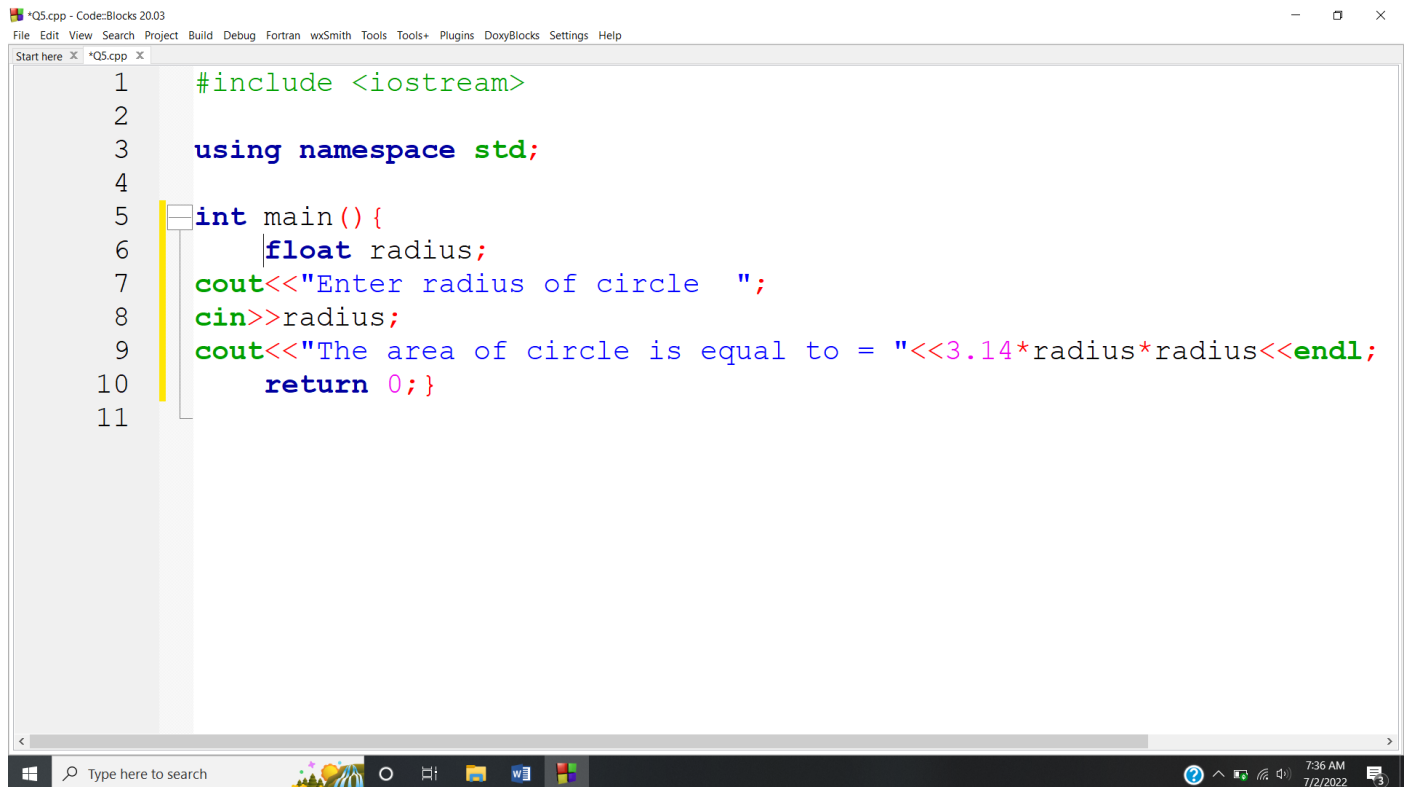
OUTPUT:

```
The mod of 5%2 is equal to = 1
The mod of 6%2 is equal to = 0


Process returned 0 (0x0)   execution tim
Press any key to continue.
```

Answer #5

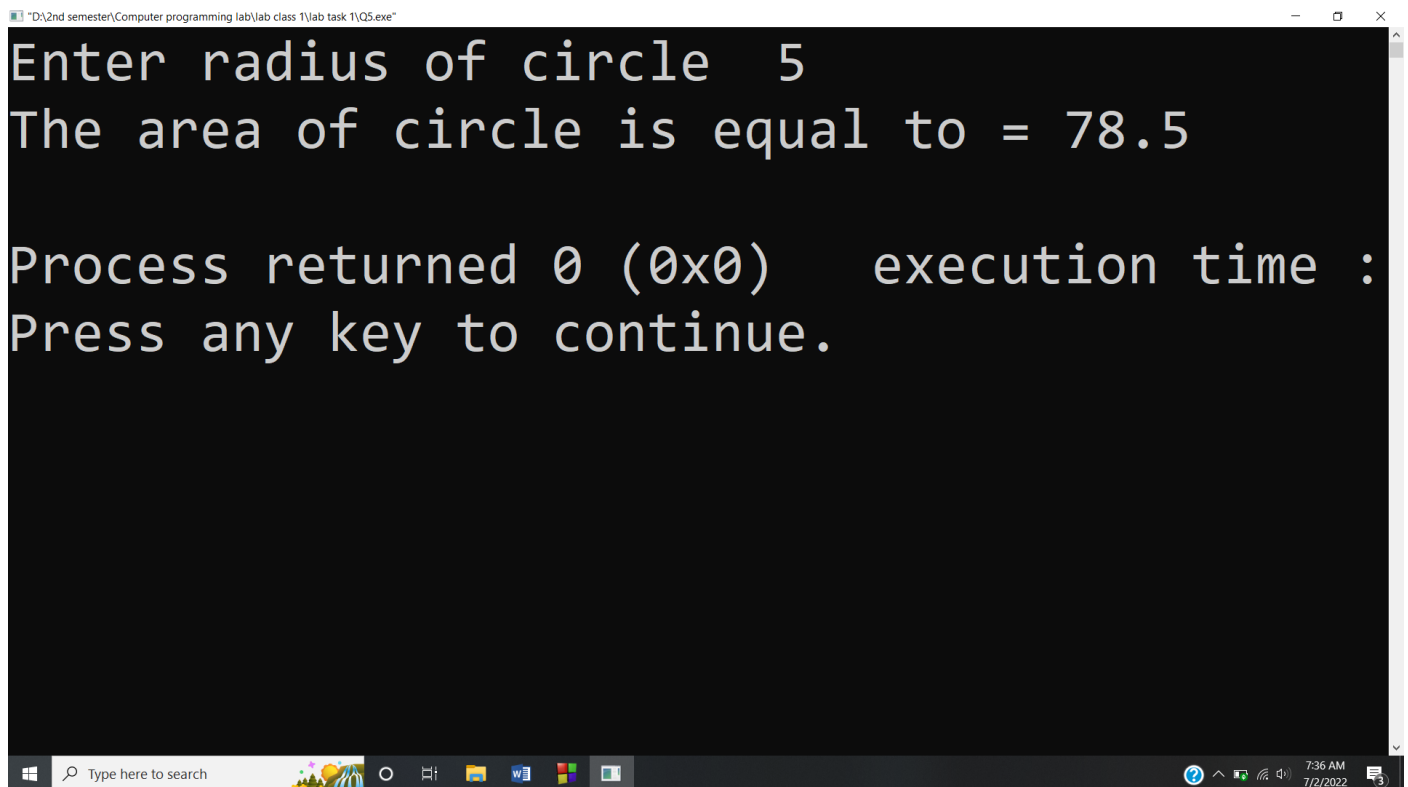## CODE:

```cpp
#include <iostream>

using namespace std;

int main(){
    float radius;
cout<<"Enter radius of circle  ";
cin>>radius;
cout<<"The area of circle is equal to = "<<3.14*radius*radius<<endl;
    return 0;}
```
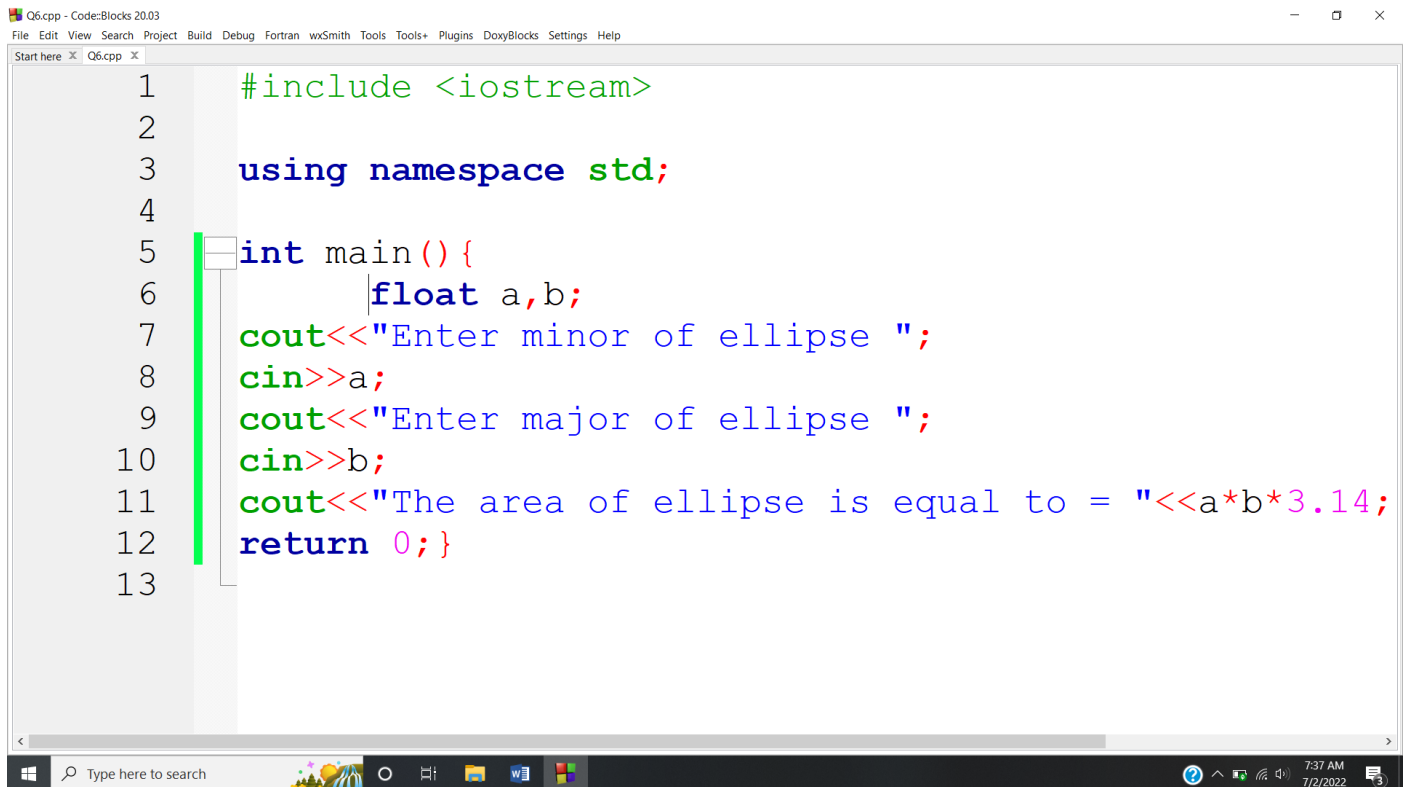
OUTPUT:

```
Enter radius of circle  5
The area of circle is equal to = 78.5


Process returned 0 (0x0)   execution time :
Press any key to continue.
```
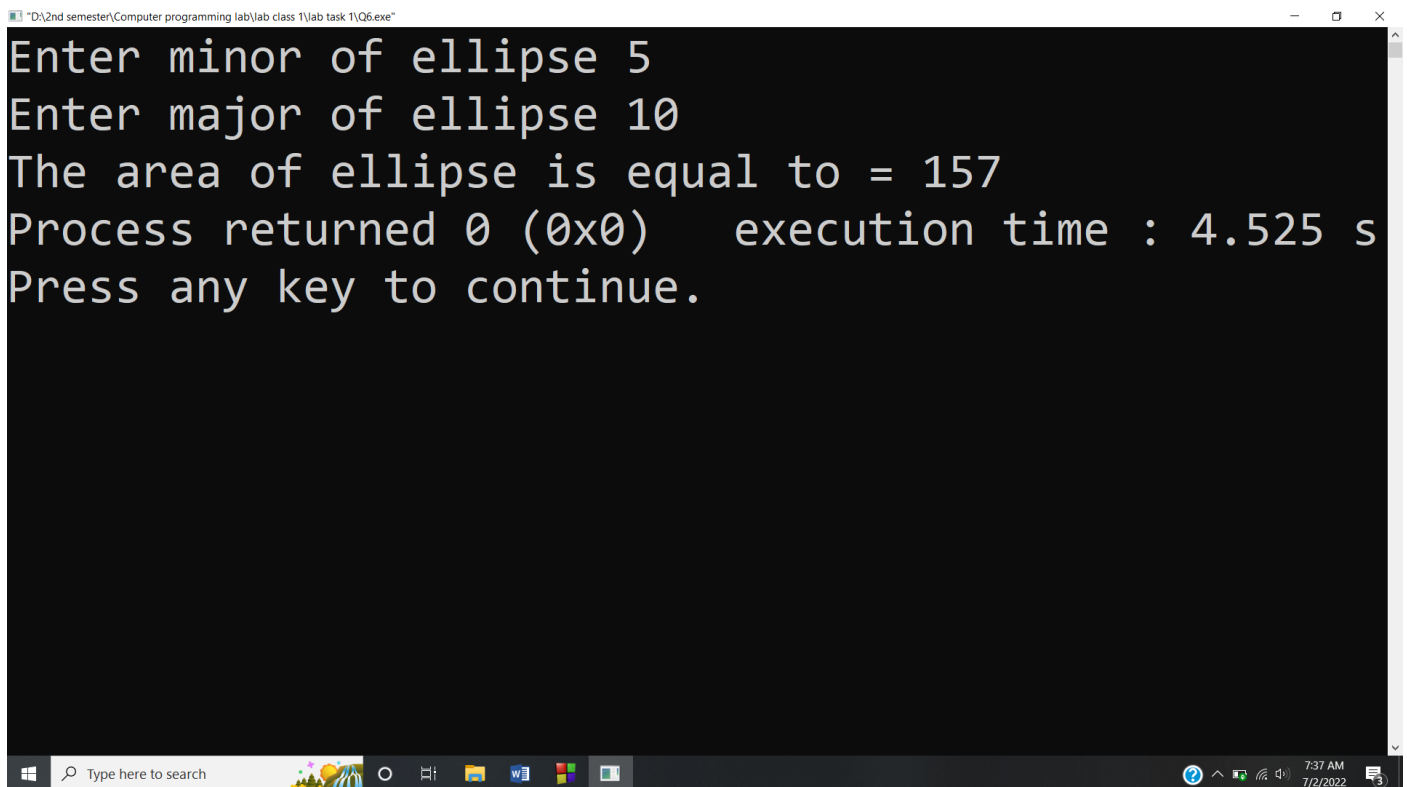
Answer #6

CODE:

```cpp
#include <iostream>

using namespace std;

int main(){
    float a,b;
    cout<<"Enter minor of ellipse ";
    cin>>a;
    cout<<"Enter major of ellipse ";
    cin>>b;
    cout<<"The area of ellipse is equal to = "<<a*b*3.14;
    return 0;}
```

OUTPUT:

```
Enter minor of ellipse 5
Enter major of ellipse 10
The area of ellipse is equal to = 157
Process returned 0 (0x0)   execution time : 4.525 s
Press any key to continue.
```