1. Type in the following program. Compile and run.

#include <iostream>

using namespace std;

int main()

{

 cout << "Hello, world." << endl;

}

Open a Word Document and copy and paste the program and the output.

1. Create a new program:

#include <iostream>

using namespace std;

int main()

{

 float num1;

 float num2

 float avg;

 cout << "Enter two numbers" << endl;

 cin >> num1 >> num2;

 avg = num1 + num2/2;

 cout << "The average is " << avg;

}

1. Try to compile. There should be a ***syntax error***. The compiler should give some indication of where the error occurred. Correct the error and compile again.
2. Run the program several times, entering different values. Examine the output carefully. Is it what you expect? There should be a ***logic error***, or bug. See if you can correct it.
3. Test your program to make sure it functions as you expect. **Submit your code, a sample output, and answers to the following questions.**

Lab Questions

1. What is the role of the compiler?
2. What was the syntax error in the above program?
3. What was the logic error in the above program?
4. In one sentence, summarize the difference between syntax errors and logic errors.