CS 1428
Fall 2018
Gentry Atkinson
Lab 0

Directions:

1- Launch Code::Blocks on your own computer. Create a new empty file by selecting
File->New->Empty File. Now select **File->Save File As…** and name your file "your_name_lab0.cpp".

2- As the first lines of your new file copy the following:

> **//Your Name**
> **//CS1428 Fall 2018**
> **//Lab 0**

The "//" indicates that a line is a comment that will be ignored by the compiler. Here you are using comments to mark ownership of your code but later you will use them to clarify the purpose of specific blocks of code.

3- The next line of your file should be:

> **#include <iostream>**

This tells the preprocessor that you want to use commands which are defined in external libraries. You can include any amount of blank lines to improve the readability of your code.

4- Your next line will be:

> **using namespace std;**

This line is important when you're using standard libraries like iostream.

5- Now type:

> **int main () {**

This is the beginning of a function definition. Every C++ program must include a "main" function. This is where the execution of your program will begin regardless of how many functions you include. Code::Blocks will probably autofill the closing "}" curly bracket. All of the code for a function must be written between these brackets.

6- For the first line of your main function type the instruction:

> **cout << "Hello World." << endl;**

This line will cause the text "Hello World" to be printed in the console and then will start a new line. The semicolon at the end of the line tells the compiler that you've finished the command and is very important. Every statement in C++ must end with a semicolon.

7- Use the "cout" statement to answer the following questions. Answer each question with a separate "cout" and end each statement with an "endl" to start a new line. Keep your answers short.
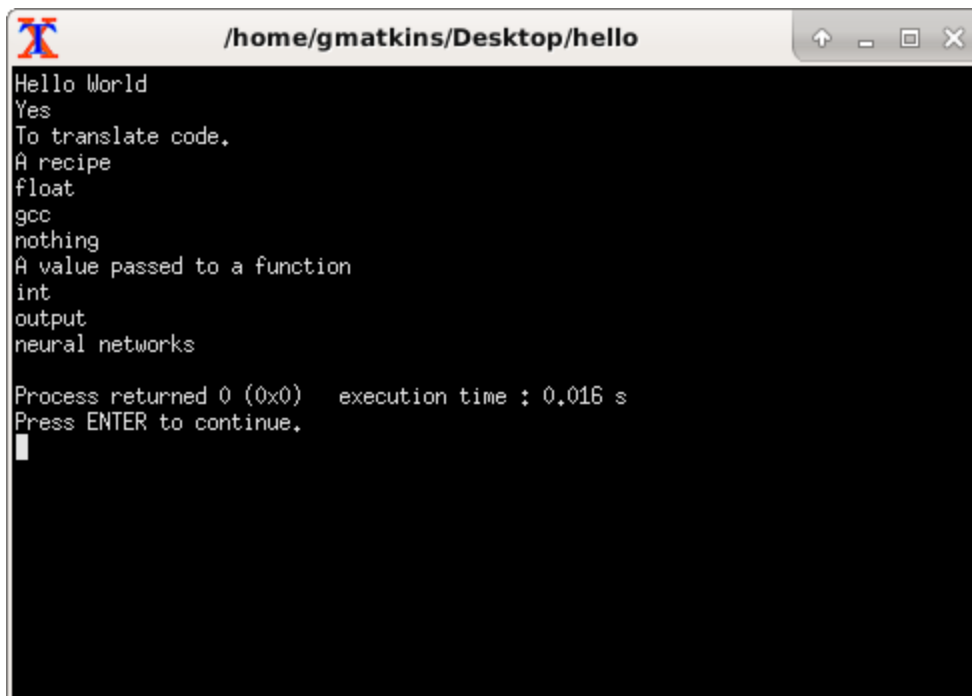
1) Do you have any programming experience?
2) What is the purpose of a compiler?
3) What is an algorithm?
4) What data type would you use to store a number that includes a decimal?
5) What is the name of the compiler we are using with the Code::Blocks IDE?
6) What would you change in this code in order to ensure that it will execute correctly on a Macintosh computer? Windows? Linux?
7) What is an "argument" in programming?
8) What type of value will your main method return?
9) What type of device is a computer monitor?
10) What area of computer science interests you most?

8- The last line of your function should be:

return 0;

Also make sure that your closing curly bracket } is present as the last character in your main method.

9- Save your work. Use the "Build and Run" button to compile and execute your program. If there are any errors in your code they will be displayed in the Build Log window of Code::Blocks. Correct any errors that exist in your code. If there are no errors in your code you will see something like this (although these answers may not be correct):

10- Email your .cpp file to gma23@txstate.edu. You can leave when you're done.