I thought I would share some notes regarding lab 1 based on common issues students encounter. If you have any questions, please feel free to ask me during the lab or stop by my office during office hours.

**Header information in code:**

You need to paste in your code and the screen capture of the console running your program.

**Make sure you update the header information**. This needs to be filled out otherwise you will lose points:

/\* Author:

Creation Date:

Last Modification Date:

Purpose:

\*/

**Creating the Project:**

Many of you use the default path for creating the project which uses a network drive (e.g. \\umd…etc.). Visual studio has problems interpreting the network drive properly. You need to follow the directions shown in the lab document and use a similar path that is shown in step 7 of the lab1 pdf. For example, use a path location that looks like this:

C:\users\bacha\documents\VisualStudio2015\Projects

If you don't see something similar in your drive, you can do the following (this will require you to create a directory called cis150 though). An example of this path is:

 C:\users\bacha\documents\cis150\

Also, when creating the project, make sure you create an **empty project**. If you see something like stdafx.h or stdafx.cpp in your code within the project that means you didn't create an empty project. This will cause you problems. Delete the project and start the steps over with a new project.

**Copying code from Canvas:**

Copying and pasting code from canvas will result in characters not being properly interpreted by Visual Studio and will cause errors when you try to build the code. This includes newlines, double quotes as in ", and dashes as in -

When you paste your code, make sure you fix the code to look exactly like how it's shown in the lab1 docx file. If in doubt, just retype it.

Also, note that strings can't span multiple lines. For example, the following will not work:

cout << "Hello

               world";

It needs to be:

cout << "Hello world";

**Leaving a previous console window open:**

After you run your code, make sure you close the console window when done. This could create an issue if you have multiple consoles open.

**Check your output:**

Whenever you run your code, make sure that you examine the output. You need to have the spaces in the right place. If you have any funny symbols showing in your output, make sure you fix those.

**Fixing the error for question 2 and other questions:**

When you have an error, visual studio will display some information about which line in your source code has the error. Try to figure out where the error is based on the line number visual studio provides you with.

Make sure that when you are copying and pasting, that you retype all the quotes e.g. " otherwise you will get errors.

Also, make sure you have the proper spacing in your output.

If you don't fix your errors, Visual Studio will ask if you want to rerun the last executable that didn't have errors. This is why some of you will see old output from a previous file even though you have changed the file.

**Multiply defined Symbols:**

If you want to create multiple files for each question, you can do that. However, you can't leave two files under "Source Files" within your project. Otherwise, you will get an error that looks like this:

Multiply defined symbols

What this is saying is that you have multiple main() functions and Visual studio doesn't know which one to use. Remember C++ needs to have exactly one main() function.

To solve this issue, you need to right click on the file you no longer want and click Remove. When you get a pop up window, click on **Remove**. This will remove the file from the project, but it won't delete it from the drive. You can re-add the file later if you'd like.

**Saving your files for later access on a different computer:**

If you want to save your files to the network drive (typically H drive), you can browse to where your .cpp file is saved and copy it to a folder in your H drive. That way when you move to another computer, you can still pull up the file and copy and paste it into a project that you want to create on a new computer.

Of course, you can use other ways such as saving to USB key, using Google Drive, etc.

Good luck!