**CSI 333 - Programming at the Hardware-Software Interface**

**(Lab and Discussion Classes)**

# Reading Materials and Resources

Lecture Slides

# Lab 1 – My First Program(s)

For this lab, we will write two programs. The first is called “Hello World” – it prints its name as a message and exits.

One thing that we didn’t talk about last week is accessing your “regular” folders from Linux (this is for Windows users). If you cd to /mnt/c from bash, you should see your “Windows” hard drive area. This is useful because you will want to use some graphical text editor for your programming. Some people like Notepad++; there are a lot of them out there – find one that you like.

Your first program, hello world is below. Enter it into your text editor and save it as “helloworld.c”. Access it from your Linux bash window and compile it:

gcc helloworld.c -o helloworld

You can then run it:

./helloworld

Make sure that your slash leans in the right direction.

#include <stdio.h>

int main()

{

// printf() displays the string inside quotation

printf("Hello, World!\n");

return 0;

}

Once that you know that works, you can make a new program.

Your actual assignment for this week is to make a program that asks for two numbers. It should find the dividend (divide them) and the remainder and print those items out. Submit the “.c” file as your lab assignment.