**CSC 3210 – Assignment #1**

**Summer 2016**

**Due Friday, June 10th, 11:59 pm**

**Objective:** To become familiar with the Unix system and assembly code.

**Requirements:**

1. Type the given “Hello, World!” program, written in C, to a file called *hello.c*
2. Use the gcc compiler to convert the C code to an assembly program called *hello.s*
3. Edit the *hello.s* file to change the output string to

“Hello world my name is ----------- \n” (fill in your name)

(make sure to edit the .s file and not the .c file)

4. Rename the file *hello.s* to *lastname\_01.s* – this should be your last name

5. Compile the edited *lastname\_01.s* and create an executable file called *lastname\_01.* Run your program to test.

**Source code:**

#include <stdio.h>

main()

{ printf(“Hello world \n”);

}

**Extra instructions:**

1. passwd ; allows you to change password
2. nano filename ; allows you to edit specified file, and creates it if it

does not exist

1. gcc –S file.c ; converts C code to assembly
2. gcc –o file file.s ; compiles assembly code and creates executable
3. ./file ; executes file
4. cp file1 file2 ; copies file1 to file2
5. for ssh – host name is solar.cs.gsu.edu, username and password have been emailed
6. transfer to your local machine and then ; submit your assignment

upload to D2L

**Note:**

To log into the solar.cs.gsu.edu server, you will need to use either PuTTY or SSH. You can download PuTTY from [here](http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html).