CSE 2451 Lab 0

Objectives

- programming environment
- hello world example
- gcc compiling commands

Introduction

In this lab, students shall test the "Hello World" program to the programming environment (Linux) they will be working in. Students will be required to either (a) login the OSU student Linux server (stdlinux.coeit.ous.edu), write a basic "Hello World" C code file, compile, and run the program, and take a screen shot of the results shown in the terminal or (b) use their own Linux environment to generate the program and take the screen shot.

Create Your Source Code File

You will need to create a C code file, named "hello.c" according to the convention. This can be done using a variety of commands:
1) "touch" followed by file name:

```
1  touch hello.c
```

2) create a file with nano text editor:

```
1  nano hello.c
```

Or if you're working with an environment with GUI, you can
1) create a new file with right click, Create Document, and select Empty File. (student linux server with GUI using FastX)
2) create a new file inside Visual Studio Code. (Ubuntu Virtual Machine)

Hello World Program

Input the following code into the hello.c file using a text editor (such as nano, vi, vim, emacs, or Visual Studio Code):

```
1  /*
2  Author: (Insert your name)
3  Class: CSE 2451 AU22
4  Lab 0
5  */
6
7  #include <stdio.h>
8
9  int main(void)
10 {
11     //Prints the Hello World to standard output
12     printf("Hello, world! I am <insert your name here>\n");
13     return 0;
14 }
```

Compile and Run Your program

Nagivate the terminal to the directory of your hello.c source file, and compile your program with the following command:

```
1  gcc hello.c -o hello -std=c99
```

Take a screen shot of the results shown in the terminal. You need to include the 1) compiling command 2) program execution command 3) program print out results (e.g., Hello world! I'm Tong) in your screen shot. Here's an example of the screen shot to submit to carmen with student name set to Tong.
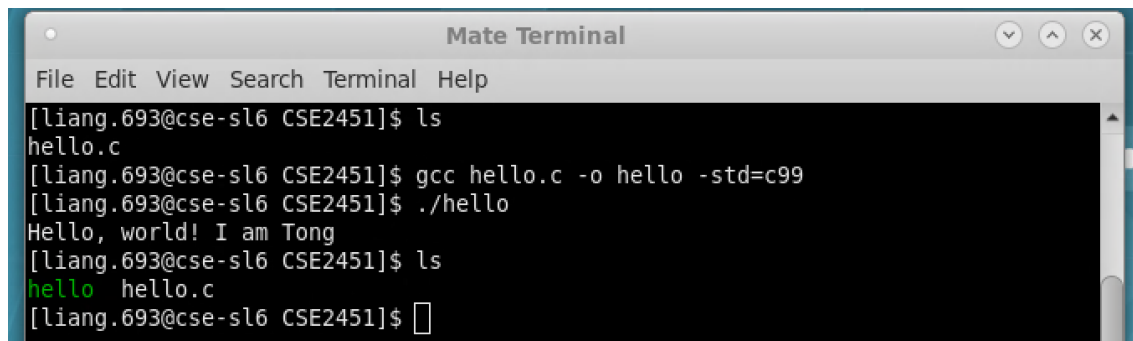

Figure 1: An example of the screen shot

Submission

You only need to upload your screen shot picture to carmen.