CS135 Lab - Intro

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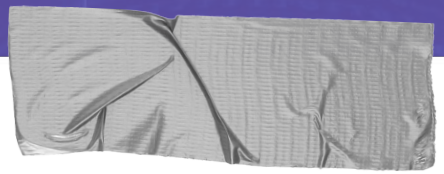


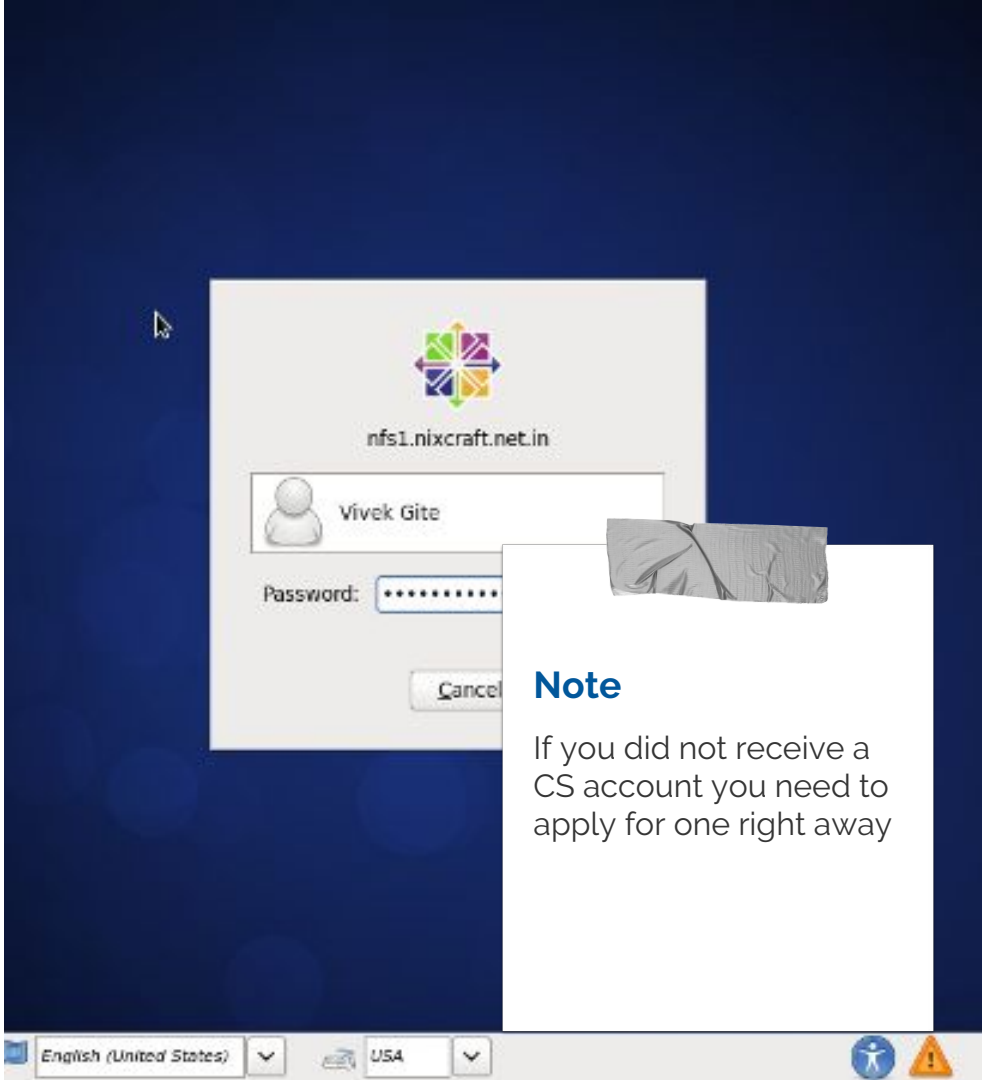
Summary

Learn how the lab works!

- ➔ Introduction
- ➔ Tux Website & Gitpage
- ➔ Change your password
- ➔ Copy and Compile a Program
- ➔ Sign into Bobby
- ➔ Submission
- ➔ Editing a Source File

Everyone Sign in Now

- ➔ Choose “Other”.
- ➔ Enter your username and password.

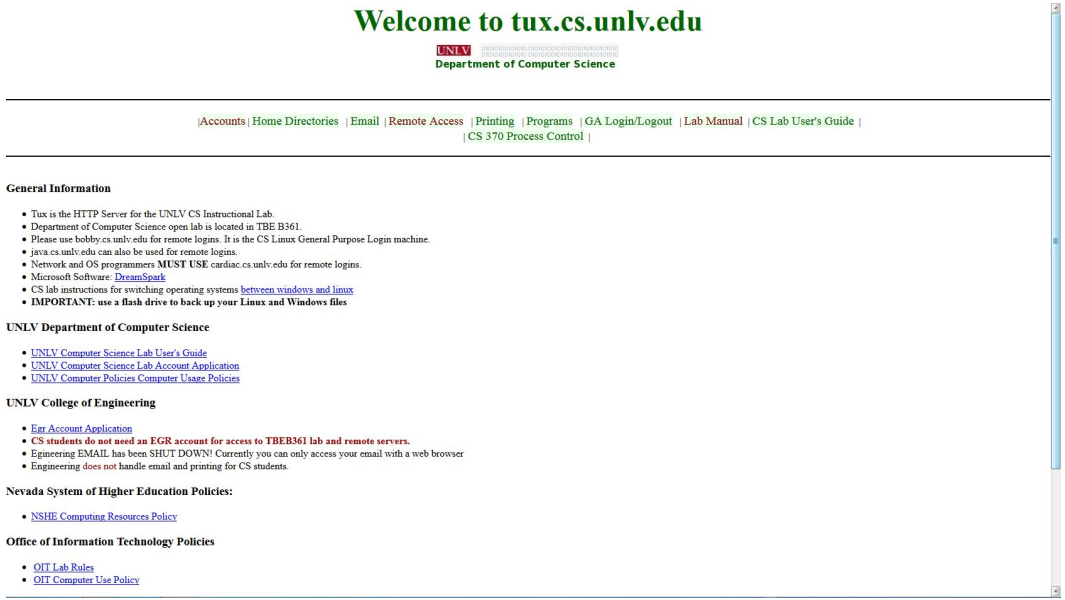


Tux Website (TBE B361 - Computer Lab Website)

This website contains all the information you need for this lab
Refer to it often for Linux commands, & the lab manual.

URL: http://tux.cs.unlv.edu/

Or just Google “UNLV tux”

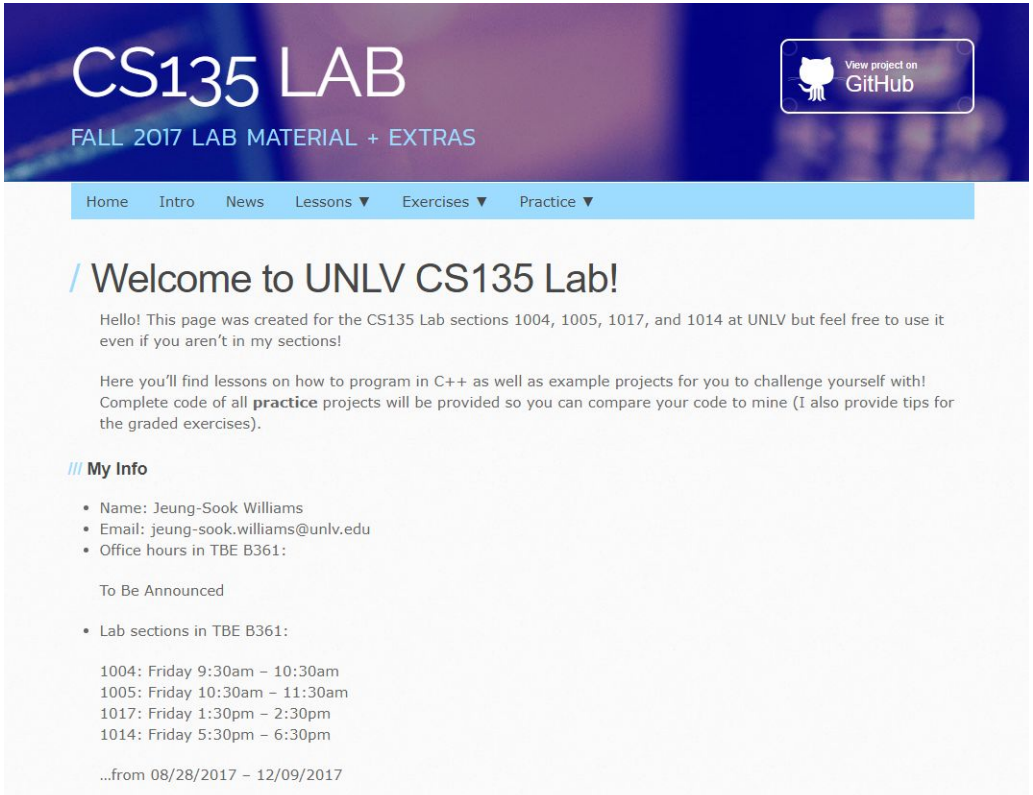


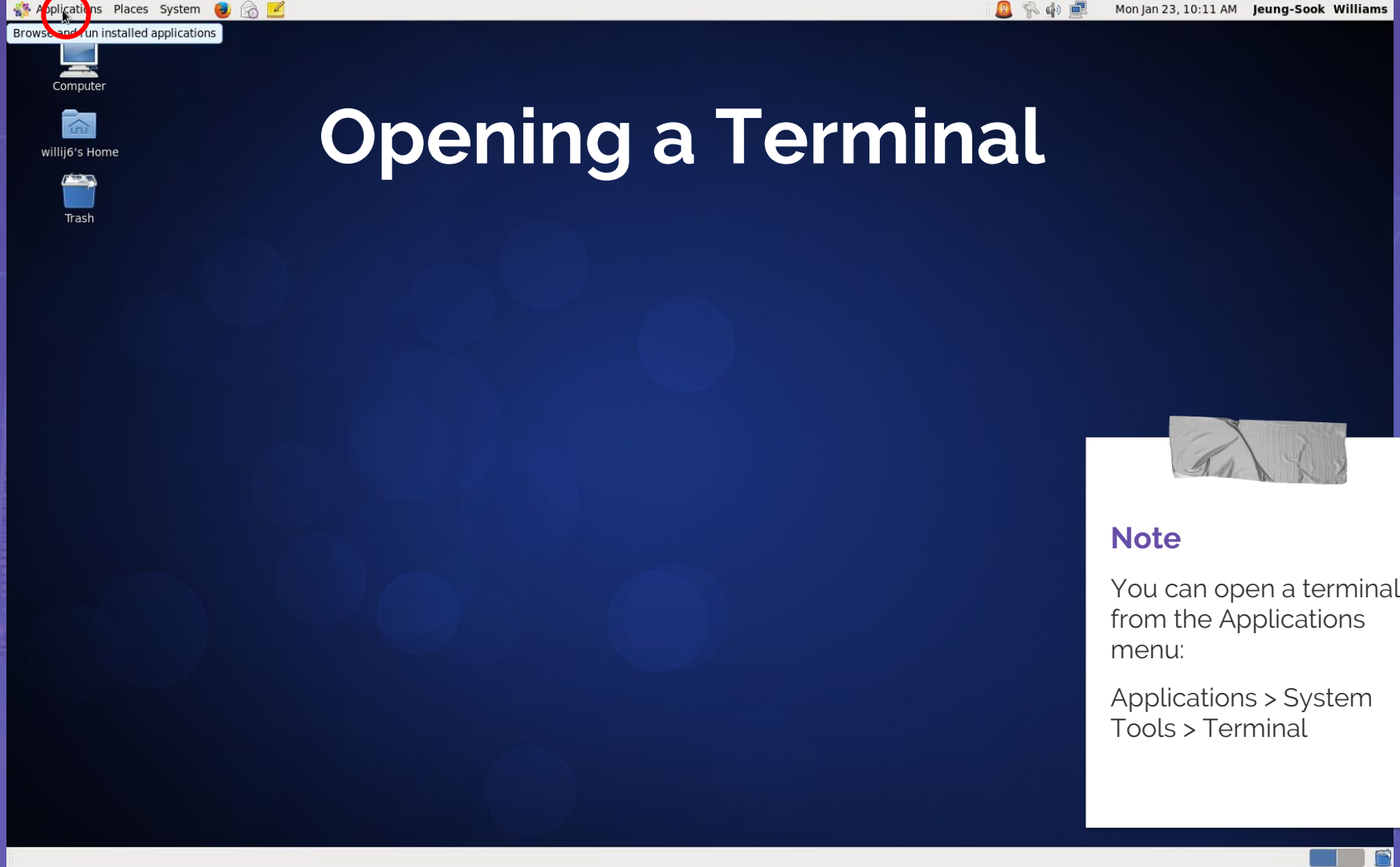
My GitPage

URL: https://jeungsook.github.io/cs135/

- ➔ Info
- ➔ Links
- ➔ News
- ➔ Lessons
- ➔ Exercises
- ➔ Practice Exercises

*Print my Lab Notes



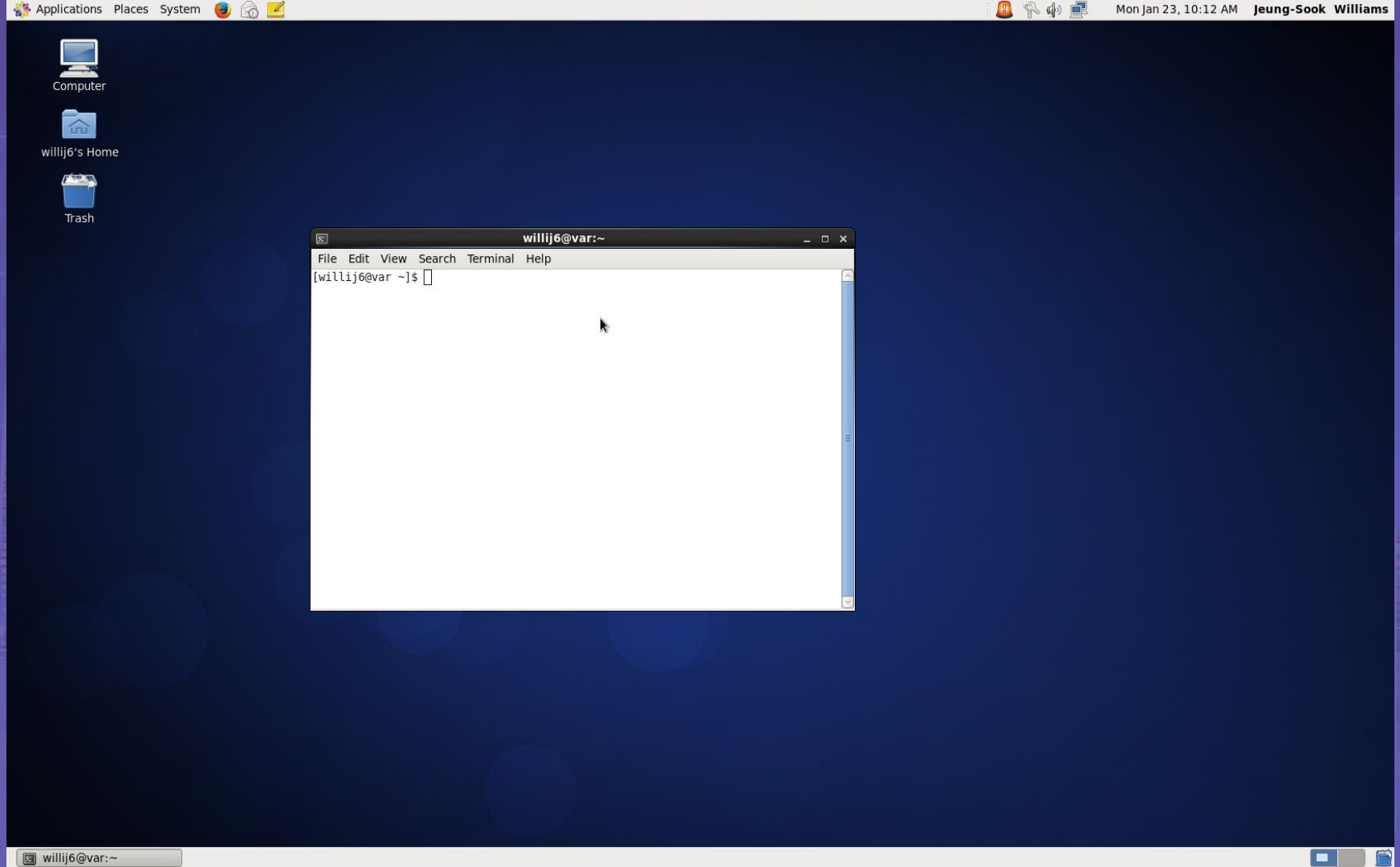


Opening a Terminal

Note

You can open a terminal from the Applications menu:

Applications > System Tools > Terminal


Applications
Places
System
Mon Jan 23, 10:12 AM
Jeung-Sook Williams
Computer
willij6's Home
Trash
willij6@var:~
File Edit View Search Terminal Help
[willij6@var ~]$
willij6@var:~

Changing your password

Instructions are located under the
“Accounts” tab on the Tux website.

LINUX	WINDOWS
Changing your CS password in Linux	***Changing your CS password in Windows***
After logging into Linux, open a terminal. At the prompt, enter the command: passwd then press Enter. Once prompted, enter your current CS password and press Enter. After that, you will be asked to enter your new password twice (KEEP IN MIND: As you enter your new password, it will not show any typing occurring on the screen. Your password is still being entered as you type). Make sure your password conforms to the following guidelines. • Must be at least 8 characters • Must contain an uppercase letter, a lowercase letter, and a number • Cannot be your name, your login name • Cannot contain blanks or dictionary words Note: This will change your CS password for both Windows and Linux.	After logging into Windows 7 press Ctrl-Alt-Del all at the same time. This will bring up a menu window with the Change Password option. Follow the instructions. NOTE: This will change your CS password for both Windows and Linux. cache: You can set your cache to a small amount; however this does will not matter because the cache for each user is save on each local machine she/he logs into and upon logout the profile gets deleted by the system. *Note: there are a few users where their profile does not get deleted if this is true for you please follow these steps otherwise your local profile will get full with temp files/cookies/cache then you will have problems loggin in to your CS account.* open Internet Explorer go to *Tools* select *Internet Options* select *Settings* Now set the "*Amount of disk space to use*:" to 1MB. click OK.

Compiling and Executing a Program

- **What are Linux commands?**
- **What are arguments?**
- **What kind of commands are there?**

The file, exercise01.cpp is located in the following directory: ~lee/cs135labs.

1. Use the following command to copy the file into your account:

cp ~lee/cs135labs/exercise01.cpp yourfilename.cpp
(press Enter)

(you may choose what you want to call the file, but make sure the name ends with .cpp)

2. Use the more or cat command to look at what is in the file.

Compiling and Executing a Program

- **G++ compiler**
- **Running a compiled program**
- **Submit the program**

Compiler - a program that converts instructions into a machine-code or lower-level form so that they can be read and executed by a computer.

3. Compile the program with the command: **g++ yourfilename.cpp** (press Enter)

4. Execute (run) the program, type: **./a.out** (press Enter)

5. Submit the program: mail -s "Your Name (first and last), Exercise #number, Lecture #number, Lab #number" -c username@unlv.nevada.edu jeung-sook.williams@unlv.edu < filename

Logging into Bobby

How to Use SSH (in a terminal):

- To connect to a remote machine; use the following commands. For example if you would like to connect to our general purpose login machine --host names: bobby.cs.unlv.edu or cardiac.cs.unlv.edu

prompt# `ssh username@bobby.cs.unlv.edu`

or

prompt# `ssh username@cardiac.cs.unlv.edu`

- After entering the above command a prompt will follow:

NOTE: If this is the first time that you have connected to bobby/cardiac from your machine, SSH will give you an authenticity warning as folllows...
The authenticity of hosts 'bobby.cs.unlv.edu (131.216.23.6)' or 'cardiac.cs.unlv.edu (131.216.23.8)' can't be established. RSA key fingerprint is xodif-lolyn-bohuh-foleg-cokec-boged-hihaf-helam-mosim-feros-pyxix
Are you sure you want to continue connecting (yes/no)?

- Type " yes " otherwise you will not be able to connect to the desired host or machine.
- Now ssh will require you password, enter it at this time and you are ready to use bobby.

Editing a Program File with Emacs

- **Open the file in emacs**
- **Add a comment to the very top of the file**

5. Open a new terminal window.

6. Start emacs by typing the command: **emacs yourfilename.cpp** (press Enter)

A comment is a non-executable statement that provides information about a program to a reader. A comment begins with two forward slashes (//). The remainder of the line will be ignored by the compiler (g++).

7. Place a comment at the **start of the program file**. The comment should contain your name, lecture and lab section #s, and the exercise #.

8. Save your changes (Ctrl-x, Ctrl-s).

Editing a Program File with Emacs

- **Compile and run your program again**
- **Submit it**

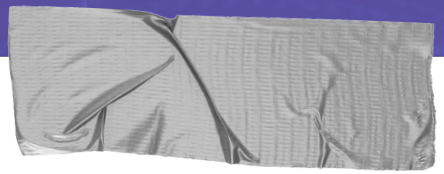
9. Move back to the other terminal window and try to compile the program.

10. If it does not compile, read the error message(s) and go back to the terminal window with emacs. Make the appropriate changes and save. Continue this process until the program compiles.

11. Run your program to confirm that it still works.

12. When you have finished editing your file, exit emacs with (Ctrl-x, Ctrl-c).

13. Submit the file



You are **Done!**

(Don't Forget to Logout).

You can leave or you can familiarize yourself with the terminal, emacs, and the tux website.