CS 240

Data Structures and Algorithms

Spring 2014

1 Lab 00

The purpose of today's lab is to understand how some different operations are done in Linux/Unix environments. This will get you oriented with the Linux environment that we will be using throughout the semester.

Please read the entire document before requesting a demo from the TA/CA.

You are to look up how to do each of the following in Linux. For this you should exercise your Google-fu and search until you find an answer, you can use your terminal to test if the answer that Google gives you is correct. You can find the terminal under `Applications -> Accessories -> Terminal`

Note that when using the terminal it is associated with a location in the file system. This location will come into play when you try to solve the questions below. The commands that you will learn as a result of this lab will be used by you throughout the semester, so you should make the effort to memorize their use, and become familiar with how to execute each of the assigned tasks, as it will save you a lot of time instead of having to look up these commands for each assignment.

Figure out how to do each of the following tasks:

1. Find out which directory you are in.
2. List the contents of a directory.
3. Change the directory you are in.
4. Create a directory.

5. Remove a directory.
6. Create a blank file.
7. Move a file or directory.
8. Rename a file.
9. Copy a file.
10. Find a manual entry for a command.
11. Edit a file in the command line.
12. Create a tar archive.

Make notes if you need to, as you will be asked to select three random tasks from the list above and asked to complete them.

2 Submission

The entire grade for this assignment will be based upon your ability to execute three random tasks as selected by the TA/CA. Make sure that you are prepared to demo all of the tasks, in case it is selected. You may refer to your notes quickly, but each of the tasks you are requested to complete should not take more than 30 seconds.

When you are prepared, raise your hand and ask to demo. Your demo must be completed during your lab session, so be sure to work quickly and efficiently.