CSCI 1312 (Introduction to Programming for Engineering), Fall 2018

Homework 1

Credit: 10 points.

1 Reading

(None.)

2 Programming Problems

(For this assignment, you won't actually be programming, but you will be doing something on a computer, and submitting your answers in the way you'll submit your programs in later assignments.)

Do the following problem(s). You will end up with at least one text file. Submit your file(s) by sending mail to `bmassing@cs.trinity.edu` with each file as an attachment. Please use a subject line that mentions the course and the assignment (e.g., "csci 1312 hw 1" or "CS1 hw 1").

1. (10 points) For this problem your mission is to learn a little more about the text editor I teach in this course, `vi`. Do the following:

   - Open a terminal window (as we did in class), and start the interactive tutorial by typing `vimtutor`. Work through at least Lesson 1, more if you have time.
   - Now use what you have learned to create a text file in which you describe your experience so far with `vi` — likes/dislikes, things you'd like to be able to do but don't know how to, etc. You could call it `vi.txt` or `learning-vi.txt`. (Avoid names with spaces for now. I'll explain why in class.) A good place to put this file would be in a directory (folder) called `CSCI1312`.
   - Turn in your file as described above.

2. (Optional — up to 5 extra-credit points) I mentioned in class that there are many other text editors available on typical UNIX/Linux systems. For extra credit, use one of them to write a short text file, as described in the previous problem. Send me this file by e-mail, as described above. (You can send both files in a single message or send them separately, whichever is easier.)

   Which editor should you try this with? My vote is for `emacs` — it's also widely available on UNIX/Linux systems, and I know enough about it to be able to try to answer your questions. Start it by opening a terminal window and typing `emacs -nw`. (Without the `-nw` you get a graphical version, which you might like but which won't work well for remote use.) This should give you a page of instructions. Press `control-h` and then `t` to start an interactive tutorial. Work through as much of this tutorial as you need to in order to create and save a text file.

3 Honor Code Statement

Include the Honor Code pledge or just the word "pledged", plus *at least one of the following* about collaboration and help (as many as apply).[1] Text *in italics* is explanatory or something for you to fill in. For programming assignments, this should go in the body of the e-mail or in a plain-text file `honor-code.txt` (no word-processor files please).

- This assignment is entirely my own work. *(Here, "entirely my own work" means that it's your own work except for anything you got from the assignment itself — some programming assignments include "starter code", for example — or from the course Web site. In particular, for programming assignments you can copy freely from anything on the "sample programs page".)*
- I worked with *names of other students* on this assignment.
- I got help with this assignment from *source of help — ACM tutoring, another student in the course, the instructor, etc. (Here, "help" means significant help, beyond a little assistance with tools or compiler errors.)*
- I got help from *outside source — a book other than the textbook (give title and author), a Web site (give its URL), etc.. (Here too, you only need to mention significant help — you don't need to tell me that you looked up an error message on the Web, but if you found an algorithm or a code sketch, tell me about that.)*
- I provided help to *names of students* on this assignment. *(And here too, you only need to tell me about significant help.)*

4 Essay

Include a brief essay (a sentence or two is fine, though you can write as much as you like) telling me what about the assignment you found interesting, difficult, or otherwise noteworthy. For programming assignments, it should go in the body of the e-mail or in a plain-text file `essay.txt` (no word-processor files please).

[1] Credit where credit is due: I based the wording of this list on a posting to a SIGCSE mailing list. SIGCSE is the ACM's Special Interest Group on CS Education.