CPSC 2310 Lab 2 – Fall 24

DUE: Monday, September 16, 2024, Midnight

SUBMISSION: Canvas.

Learning Vim using vimtutor

You will need access to a terminal for this assignment. I suggest you use the SoC servers or use virtual.computing.clemson.edu to access the server from your laptop. **Your final submission will be a pdf.** Since you will be working on the school of computing servers for this lab you can choose the editor. After you have completed the document, you will need to export it to a PDF. For the OS users the terminal that comes with X Code has access to the vimtutor. Feel free to use your Mac.

Introduction:

Many of you, including myself, use a text editor such as Atom or VS Code when writing your programs. That is perfectly fine. However, there will be times when you need to make changes or create a document on some Linux server, such as one of the SoC servers. Many of you find yourselves making the change on your local computer then using some file transfer program or command to transfer the document to a server. This is a time-consuming process. If you know the basics of vim you could simply make these changes directly to the document on Linux. Many students, after learning vi/vim, realize how powerful it is they choose to make it their primary editor when using Linux or MacOS.

Vim has a tutorial available. Each section of the tutorial is labeled. You will go through all sections of this tutorial. At any point that the tutorial has an exercise for you to do, you are **required** to take a screen shot showing you completed the exercise. Most of these are going to be actual changes you will make in the tutorial. **Also, you are required to explain what change you made and the command you used.** If a section has no changes or exercises for you to do, type "no changes or exercises needed". Forcing you to explain the change will "hopefully" help you learn the actual command. I have listed each section below.

To access the tutorial, you will need to log onto one of the SoC servers either by ssh or virtual.computing.clemson.edu. You will need to open a terminal. On the terminal command line type vimtutor (no spaces). You should see a screen that says something like: WECOME TO THE VIM TUTOR – Version 1.7. You are going to work through this tutorial. The documentation said this should take ~25-30 minutes. I hope you take your time exploring the commands you will use in this tutorial.

The link below is a video of someone going through this tutorial making his own comments and suggestions. Either while you are completing the tutorial or later, this video is a good one to watch.
https://www.youtube.com/watch?v=d8XtNXutVto

Each section is worth 2.5 points. Please do not leave a lesson blank. 2.5 points will be deducted from your grade if you leave any lessons blank.

Your screen shots and or comments should be placed under the appropriate sections.

Lesson 1.1 Moving the cursor
Lesson 1.2: Exiting VIM
Lesson 1.3: Text Editing – Deletion
Lesson 1.4: Text Editing – Insertion
Lesson 1.5: Text Editing – Appending
Lesson 1.6: Editing A File
Lesson 1 Summary
Lesson 2.1: Deletion Commands
Lesson 2.2: More Deletion Commands
Lesson 2.3: On operators and Motions
Lesson 2.4: Using a count for a Motion
Lesson 2.5: Using a count to delete More
Lesson 2.6: Operating on Lines
Lesson 2.7: The Undo Command
Lesson 2: Summary
Lesson 3.1: the Put Command
Lesson 3.2: the Replace Command
Lesson 3.3: The Change Operator
Lesson 3.4: More changes Using C
Lesson 3: Summary
Lesson 4.1: Cursor Location and File Status
Lesson 4.2: The Search Command
Lesson 4.3: Matching Parentheses Search
Lesson 4.4: The substitute Command
Lesson 4: Summary
Lesson 5.1: How to Execute an External Command
Lesson 5.2: More on Writing Files
Lesson 5.3: Selecting Text to Write
Lesson 5.4: Retrieving and Merging Files
Lesson 5: Summary
Lesson 6.1: The Open Command
Lesson 6.2: the Append Command
Lesson 6.3: Another Way to Replace
Lesson 6.4: Copy and Paste Text

Once you have completed the tutorial you will need to save your document as a pdf and submit it to canvas.