**Chapter 5 GUIDED EXERCISE**

**EDITING TEXT FILES FROM THE SHELL PROMPT**

In this exercise, you will use **vimtutor** to practice basic editing techniques in the ***vim*** editor.

**OUTCOMES**

You should be able to:

• Edit files using Vim.

• Gain competency in Vim using **vimtutor**.

**BEFORE YOU BEGIN**

Log in to workstation as student using student as the password.

On workstation, run the **lab edit-vim start** command. This script verifies that the

target host is running.

[student@workstation ~]$ **lab edit-vim start**

**NOTE: Be sure to use a monitor large enough to clearly see text characters.**

1. Use the **ssh** command to log in to servera.

[student@workstation ~]$ **ssh student@servera**

*...output omitted...*

[student@servera ~]$

1. Open **vimtutor**. Read the Welcome screen and perform *Lesson 1.1*.

[student@serverX ~]$ **vimtutor**

In the lecture, only keyboard arrow keys were used for navigation. In **vi**'s early years, users could not rely on working keyboard mappings for arrow keys. Therefore, **vi** was designed with commands using only standard character keys, such as the conveniently grouped h, j, k, and l. Here is one way to remember them:

hang *back*, jump *down*, kick *up*, leap *forward*.

1. Return to the **vimtutor** window. Perform *Lesson 1.2*.

This early lesson teaches how to quit without having to keep an unwanted file change. All changes are lost, but this is better than leaving a critical file in an incorrect state.

1. Return to the **vimtutor** window. Perform *Lesson 1.3*.

Vim has faster, more efficient keystrokes to delete an exact amount of words, lines, sentences, and paragraphs. However, any editing job *can* be accomplished using only x for single-character deletion.

1. Return to the **vimtutor** window. Perform *Lesson 1.4*.

The minimum required keystrokes are for entering and leaving edit mode, arrow keys, and deleting. For most edit tasks, the first key pressed is **i**.

1. Return to the **vimtutor** window. Perform *Lesson 1.5*.

In the lecture, only the **i** (*insert*) command was taught as the keystroke to enter edit mode. This vimtutor lesson demonstrates that other keystrokes are available to change the cursor placement when insert mode is entered. However, once in insert mode, all text typed is still file content.

1. Return to the **vimtutor** window. Do NOT exit the Vim editor until the highlighted step has been completed. Your changes will be verified at the end of this lab.

Save the newly edited file, file name vimtutor.lesson1.  
**<ESC> :w vimtutor.lesson1 <ENTER>**

Perform *Lesson 1.6*.

Save the file by writing and quitting. This is the last lesson for the minimum *required* keystrokes to be able to accomplish any editing task.

1. Return to the **vimtutor** window.
2. Perform all steps in Lesson 2. When finished, and before exiting **vimtutor**:

Save the newly edited file, file name vimtutor.lesson2.  
**<ESC> :w vimtutor.lesson2 <ENTER>**

1. Perform all steps in Lesson 3. When finished, and before exiting **vimtutor**:

Save the newly edited file, file name vimtutor.lesson3.  
**<ESC> :w vimtutor.lesson3 <ENTER>**

1. Perform all steps in Lesson 4. When finished, and before exiting **vimtutor**:

Addition: follow the steps in Lesson 4.2. Search for all words typed “errroor”. As each word is found, replace the word with the correct spelling, “error”. When all occurrences have been changed, search will return with the error message: “E486: Pattern not found: errrorr”.

Save the newly edited file, file name vimtutor.lesson4.  
**<ESC> :w vimtutor.lesson4 <ENTER>**

1. Perform all steps in Lesson 5. When finished, and before exiting **vimtutor**:

Save the newly edited file, file name vimtutor.lesson5.  
**<ESC> :w vimtutor.lesson5 <ENTER>**

1. Perform all steps in Lesson 6. When finished, and before exiting **vimtutor**:

Save the newly edited file, file name vimtutor.lesson6.  
**<ESC> :w vimtutor.lesson6 <ENTER>**

1. Perform all steps in Lesson 7. Note that the results of this lesson are not saved. When finished, exit **vimtutor**.

15. **Evaluation**

On workstation, run the **lab edit-vim grade** script to complete this exercise.

[student@workstation ~]$ **lab edit-vim grade**

**NOTE: If you got a section incorrect, simply edit the relevant section file. For example, if there is something wrong with output in lesson 3, edit file vimtutor.lesson3.**

If you did not receive 100 points, fix the errors and repeat this step.

16. **Finish**

On workstation, run the **lab edit-vim finish** script to complete this exercise.

[student@workstation ~]$ **lab edit-vim finish**

This concludes the guided exercise.