CPAN133 – Operating Systems Winter 2023

**Exercise-7**

Due- March 15, 11:59 PM

**Part1:**

1. To append output to an existing file, you use \_\_\_\_.

a) <

b) <<

c) >

d) >>

**A: d) >>**

1. Write the following two commands to search for a pattern from the given file-

a) grep ‘usr’ /etc/passd (by using the grep command with arguments)

b) grep ‘usr’ < /etc/passd (by using the standard input redirection)

Both of these two commands will not be executed and we will see error messages.

grep: /etc/passw: No such file or directory

-bash: /etc/passw: No such file or directory

Examine both of the error messages and explain why and how they are different. For this question as a reference use week9 lecture slides.

**A: The first error message is when we try to use standard input to pass the location as an argument. The error comes from the command itself. The second error message is when we use standard input redirection. The error came from the bash shell.**

**Part2:** Exercise with vi text editor. For this part write the command (key) for each of the following steps.

1. Using the vi editor:

* Create a file called exercise\_7 with four lines, each containing the word “today.”

**vim exercise\_7**

**4i**

**today, enter, esc**

* Copy the first four lines using only one command.

**gg**

**4yy**

* Save the file, and exit vi.

**:wq**

* Reopen the document, and change “today” to “yesterday” only on the first four lines.

**Vim exercise\_7**

**4dd**

**4ii**

**yesterday, enter, esc**

1. Using the vi editor:

* Create a document called first.file, and enter a few lines of text in it.

**Vim first.file**

**5i**

**text, enter, esc**

* Save it.

**:w**

* Create a second document called second.file, and enter a few lines of text in it.

**:e second.file**

**4i**

**text2, enter, esc**

* Save it.

**:w**

* Create a third document called third.file by merging the text from the first two files.

**:e third.file**

**:buffer 1**

**gg**

**4yy**

**:buffer 3**

**p**

**:w**

**:buffer 2**

**gg**

**4yy**

**:buffer 3**

**G (shift g)**

**p**

* Save the third file, and exit the editor.

:wq

* Type vi third.file and press Enter to be certain third.file contains the text from both files.

**Vim third.file**

**Part3:**  Exercise with vi text editor. For this part write the command (key) where it is applicable

Use the vi editor and create the following file and call it sample-text.txt:

Text consists of lines.

Lines contain characters.

Characters form words.

Words form text.

Files contain text.

Text contains lines.

Lines contain characters.

Characters form words. Words form text.

1. Delete the first line. To do this, press (Esc) to go to the command mode. Type H. Type (dd).

2. You want to edit the sentence “Files contain text” by deleting the last word:

a. Make *sure you are in command mode.* Type **4G** to move to the 5th line and press the right arrow key to move to the “c” in “contain”.

b. Make *sure you are in command mode.* Type **d$** to delete the text from the cursor to the end of the line and then type **i** to switch to insert mode.

c. Type **consists of words** to complete the sentence.

3. Sometimes you want to locate some text to check its accuracy:

a. Press **Esc** to make sure you are in command mode

b. Type **H**

c. Search for the string **con.** Press **n** to search for its next occurrence

**/con**