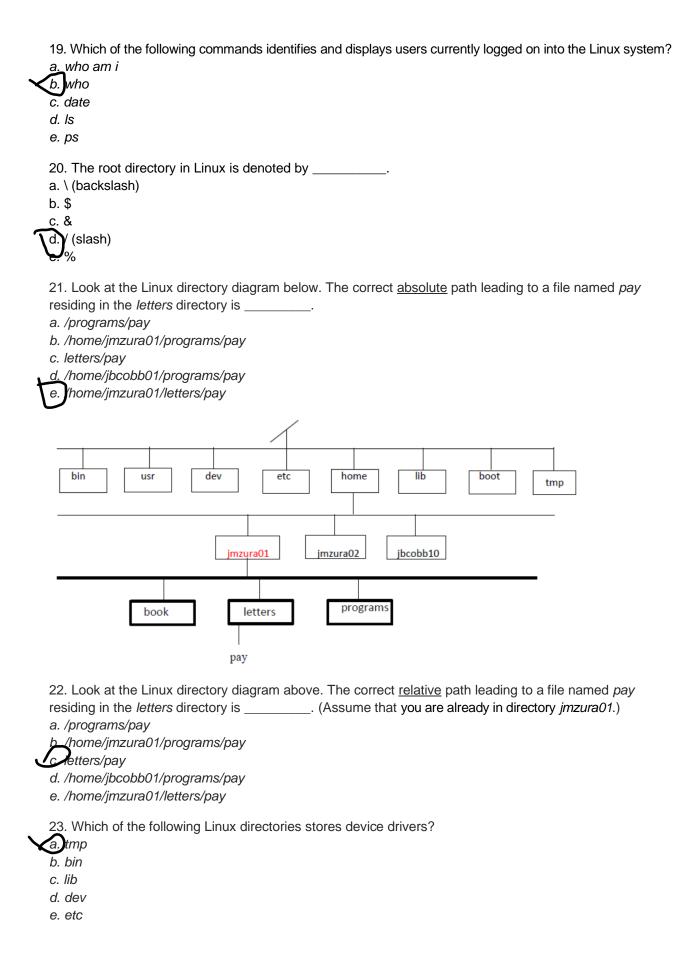
CIS-350 Infrastructure Technologies Lab 4 Report

Student Name:Mike Bergamini
The total number of points granted for this lab is 50. The answers to 26 questions in this Lab 4 Report are worth 30 points. The other 20 points you earn for the hand-on work with Linux. You must login to your Ubuntu Linux account on the Mercury server and work all of the commands in file CIS-350-Lab4-Linux Command Prompt.pdf. If you follow the Lab 4 instructions carefully, you should have all the required directories and files stored in or under your Linux home directory. I will go the Linux account of every student to check if the hands-on work was done. If I do not see any activity you will get 0 out of 20 points.
NOTE 1: Linux commands, filenames, options, etc. are <u>case sensitive</u> . The vast majority of them is written in <u>lower case</u> . For example, filenames John, JOHN, and john represent three different files.
NOTE 2: You should find the answers to all questions below in the documents named CIS-350-Lab3-Linux Command Prompt.pdf, CIS-350-Lab4-Linux Command Prompt.pdf, CIS-350-Lab4-Linux Command Prompt.pdf, CIS-350 Unix-Linux Features, Commands and Utilities.pdf, and the recorded demo of Labs 3-5 and on Panopto and/or MS Teams.
Circle the correct answer.
1. Which of the following commands would you use to create a new file named LastNames using a pico editor? a. pico lastnames b. pico LastNames c. nano LastNames d. emacs LastNames e. vi LastNames 2. Which of the following commands would you use to modify a file named FirstNames using a vi editor?
a. pico firstnames b. pico FirstNames c. nano FirstNames d. emacs FirstNames e. vi FirstNames
3. If you compile a C program named <i>Prog2.c</i> with the command <i>cc Prog2.c</i> , what will the default name of the object code be if compilation is successful? a.out b. out.a c. Prog2.out d/a.out e. Prog2.c
4. Which of the following commands would you use to compile program <i>Prog1.c</i> written in C language? a. cc <i>Prog2.c</i> b. c <i>Prog1.c</i> or <i>gcc Prog1.c</i> c. c <i>Prog1.c</i> d/ <i>Prog1.c</i> e. cc <i>Prog1.cc</i>

	5. Which of the following commands would you use to display the directory in a long form, including invisible files? Use piping to prevent the listing to scroll off the screen.
	a. Is
	b. Is more
	<u>c.</u> ls -al
(d Is -al more
	e. Is -I more
	6. Which of the following commands would you use to sort in the ascending order the data coming from file named LastNames and redirect (route) the output to a file named LastNames Sorted? Execute the

- m a command in foreground.
- a. sort > LastNames > LastNamesSorted
- b. sort < LastNames > LastNamesSorted &
- C. sort < LastNames > LastNamesSorted
 - d. sort < LastNames < LastNamesSorted
 - e. sort < LastNames >> LastNamesSorted &
 - 7. Which of the following commands would you use to sort in the descending order the data coming from a file named LastNames and append the output to a file LastNamesSorted? Execute the command in background.
 - a. sort > LastNames > LastNamesSorted
 - b. sort < LastNames > LastNamesSorted
 - c. ort -r < LastNames > LastNamesSorted &
 - d. sort < LastNames < LastNamesSorted
 - e. sort -r < LastNames >> LastNamesSorted &
 - 8. Which of the following commands would you use to grant yourself (the owner) the read authority and deny write and execute authority to a file named LastNames?
 - a.chmod u+rwx LastNames
 - b. chmod u+r-wx LastNames
 - c. chmod a+r-wx LastNames
 - d. chmod o+r-- LastNames
 - e. chmod u-r+wx LastNames
 - 9. How would you use the alias command to change the name of the Is command to the name list for the current log in session?
 - a. alias Is=list
 - b. alias list=ls
 - c. ls=list
 - d. list=ls
 - e. change Is to list
 - 10. What is the sequence of the two commands/keys that you would use to start (record) and end your interactive session with Linux, and save it in a file named LinuxLab4?
 - √a. Type script LinuxLab4 (to start) and hit CTRL-D to end.
 - b. Hit CTRL-D (to start) and type LinuxLab4 to end.
 - 11. Which of the following commands would you use to display the terminal control-key settings?
 - a. stt -a
 - b. *st -a*
 - c. stty -a
 - d. a -stty
 - e. script -a

12. Which of the following commands would you use to display a banner for Mary?	
a. banner Mary	
b. display Mary	
c. show Mary	
d. demonstrate Mary	
e. present Mary	
13. What command would you use to compile a C program named <i>Prog3.c</i> and save an object file (if <u>compilation</u> is successful) in a file named <i>Prog3.out</i> ?	
a. cc -o Prog3.out Prog3.c	
b. cc Prog3.c	
c. gcc Prog3.c	
d. :/Prog3.c	
e. cc Prog3.cc -o Prog3.out	
e. cc 1 10g3.cc -0 1 10g3.cui	
14. What sequence of the following steps/commands is needed to move a task/process already running in	
foreground to background?	
a. hit <i>Ctrl-C</i> (to kill) and type <i>bg</i>	
b. type bg and hit Ctrl-Z (to suspend)	
c. b. Ctrl-Z (to suspend) and type bg	
d. hit <i>Ctrl-U</i> (to kill) and type <i>bg</i>	
e. type bg and hit Ctrl-C (to kill)	
15. Say, that Linux assigned a job/task id number = 1 to the task running in background. What command	
would you use to move that task/process from background to foreground?	
<u>a</u> fg 2	
₹b fg 1	
c. fg 3	
d. fg 4	
e. fg 5	
16. Which of the following combination of keys would you press to erase (kill) the entire command on the	
command line?	
a. Ctrl-S	
b. Ctrl-Q	
c. Ctrl-Z	
Ctrl-U	
e. Ctrl-X	
17. Which of the following commands displays the process status?	
a. sp	
b. Is	
c. <u>m</u> an	
ops — ops	
e. cp	
18. Which of the following commands would you use to put a shell to sleep for 1 hour?	
a. sleep 1	
a. sieep 1	
c. sleep 60	
d. sleep	
e. sleep 40	



/	24. Which of the following are the features of Unix/Linux? a. device independence b. portability c. powerful interface d. asynchronous I/O e. All the above
(25. UNIX/Linux <u>distinguishes</u> between upper case and lower case, so "A" and "a" are different. a. True b. False
Į	26. The get to the C shell you need to type <i>ksh</i> and press Enter. a. True b. Palse
	27. Linux is an essential component of the course. By putting my full name below, I testify that I actually logged in to the Ubuntu Linux and worked the commands on the Ubuntu Linux system, not just answered the above questions on paper. I acknowledge that I will lose points for not working the lab in Linux. _Michael Bergamini
	28. Describe briefly which commands did not work and/or which places in the tutorial need improvement/clarification.