CIS-350

Infrastructure Technologies Solution to Lab 4 Report

NOTE 1: Linux commands, filenames, options, etc. are <u>case sensitive</u>. The vast majority of them is written in **lower case**. 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 \square *CIS-350-Lab3-Linux Command Prompt.pdf*, \square CIS-350-Lab4-Linux Command Prompt.pdf, \square _*CIS-350 Unix-Linux Features, Commands and Utilities.pdf*, and the recorded demo of Labs 3-5 and on Panopto and/or MS Teams.

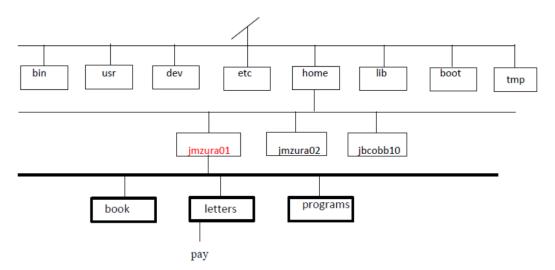
Circle/Highlight the correct answer.

- 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 *Prog2.c* with the command *cc Prog2.c*, what will the default name of the object code be if compilation is successful?
- a. 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 Prog1.c written in C language?
- a. cc Prog2.c
- b. cc Prog1.c or gcc Prog1.c
- c. c Proq1.c
- d. ./Prog1.c
- e. cc Prog1.cc
- 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
- c. Is -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 a file named *LastNames* and <u>redirect</u> (<u>route</u>) the output to a file named *LastNamesSorted*? Execute the 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 <u>append</u> the output to a file *LastNamesSorted*? Execute the command in background.
- a. sort > LastNames > LastNamesSorted
- b. sort < LastNames > LastNamesSorted
- c. sort -r < LastNames > LastNamesSorted &
- d. sort < LastNames < LastNamesSorted
- e. sort -r < LastNames >> LastNamesSorted &
- 8. Which of the following commands would you use to grant <u>yourself</u> (the owner) the <u>read</u> authority and <u>deny</u> <u>write</u> and <u>execute</u> authority to a file named <u>LastNames</u>?
- 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 *ls* 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 <u>start</u> (record) and <u>end</u> 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 *Prog3.c* and save an object file (if compilation is successful) in a file named *Prog3.out*?
- 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

14. What sequence of the following steps/commands is needed to move a task/process already running in foreground to background? a. hit Ctrl-C (to kill) and type bg b. type bg and hit Ctrl-Z (to suspend) c. hit Ctrl-Z (to suspend) and type bg d. hit Ctrl-U (to kill) and type bg 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? a. 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 d. Ctrl-U e. Ctrl-X
17. Which of the following commands displays the process status? a. sp b. ls c. man d. ps e. cp
18. Which of the following commands would you use to put a shell to sleep for 1 hour? a. sleep 1 b. sleep 3600 c. sleep 60 d. sleep e. sleep 40
19. Which of the following commands identifies and displays users currently logged on into the Linux system? a. who am i b. who c. date d. ls e. ps
20. The root directory in Linux is denoted by a. \ (backslash) b. \$ c. & d. / (slash) e. %
21. Look at the Linux directory diagram below. The correct <u>absolute</u> path leading to a file named <i>pay</i> residing in the <i>letters</i> directory is a. /programs/pay b. /home/jmzura01/programs/pay

- c. letters/pay
- d. /home/jbcobb01/programs/pay
- e. /home/jmzura01/letters/pay



- 22. Look at the Linux directory diagram above. The correct <u>relative</u> path leading to a file named *pay* residing in the *letters* directory is ______. (Assume that you are already in directory *jmzura01*.)
- a. /programs/pay
- b. /home/jmzura01/programs/pay
- c. letters/pay
- d. /home/jbcobb01/programs/pay
- e. /home/jmzura01/letters/pay
- 23. Which of the following Linux directories stores device drivers?
- a. tmp
- b. bin
- c. lib
- d. dev
- e. etc
- 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 distinguishes between upper case and lower case, so "A" and "a" are different.
- a. True
- b. False
- 26. The get to the C shell you need to type ksh and press Enter.
- a. True
- b. False
- 27. Describe briefly which commands did not work and/or which places in the tutorial need improvement/clarification.