CIS-350 Infrastructure Technologies Lab 3 Report

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The total number of points granted for this lab is 50. The answers to 25 questions in this Lab 3 Report are worth 25 points. The other 25 points you earn for the hand-on work in Ubuntu Linux. You must login to your Ubuntu Linux account on the Mercury server and work all of the commands in file CIS-350-Lab3-Linux Command Prompt.pdf. If you follow the Lab 3 instructions carefully, you should have all the required directories and files stored in your Linux home directory (/home/your_login_name; for example, /home/jmzura01). 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 25 points. If I see partial activity, you will earn between 0 and 25 points. No excuses please and no makeup work.

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NOTE 1: Linux commands, filenames, options, etc. are case sensitive . 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 CIS-350-Lab3-Linux Command Prompt.pdf, document named CIS-350 Unix-Linux Features, Commands and Utilities.pdf, and the recorded demo of Labs 3-5 and on Panopto and/or MS Teams.
What command displays your working directory?pwd
2. What command moves you to the parent directory?cd
3. What command moves you to the root directory from anywhere?cd /
4. What command moves you to your home directory from anywhere?cd
5. What command displays all files and directories in a long form and includes invisible files?ls -al
6. What command displays the contents of file Andy?cat ANDY
7. What command allows you to get the manual on-line help on the <i>Is</i> command? _man Is
8. What command would you use to sort data in the ascending order coming from file <i>MyData</i> and redirect (route) the sorted output to file <i>MyDataSorted</i> ? (Watch the lower and upper case!)
sort <mydata> MyDataSorted</mydata>
9. Display the content of the directory in a long form. Include invisible files and protect the directory list from scrolling off the screenls -al more
10. What command would you use to open the <i>nano</i> editor to create file students?nano students
11. What command would you use to open the vi editor to create file KIM?vi KIM
12. What command would you use to remove the directory letters?rmdir letters
13. What command is used to change the password?passwd
14. What does the command cat students > letters do?
To display the content of a file named students, and redirect the output to the file named letters
15. Assume that your home directory is your login directory. Write a command that(a) creates directory named <i>mary3</i> in your home directorymkdir mary3

(b) copies all files with extension cc from your home directory to the mary3 directory _cp *.cc mary3_ (c) changes your home directory to the mary3 directory ____cd mary3_ 16. Describe briefly what does a command cat tom1 | sort do. To display the content of a file name tom1 and sort the output 17. Look at the Linux directory diagram below. Circle the correct absolute path to file prog 1? a/home/jmzura01/programs/prog1 b. /home/imzura02/letters/prog1 c. /home/jmzura01/letters/prog1 d. /home/jmzura01/letters/pay e. programs/prog1 lib bin usr dev etc home boot tmp imzura01 jmzura02 jbcobb10 programs book letters prog1 prog2 pay 18. Look at the Linux directory diagram above. You are already in directory *imzura01*. Circle the correct relative path to file prog1? a. /home/jmzura01/programs/prog1 b. /home/jmzura02/letters/prog1 c. /home/jmzura01/letters/prog1 d. /programs/prog1 programs/prog1 19. You have typed the command Is -al, pressed Enter key, and the first 10 characters are displayed as - r w x r - - - - indicating the file type and file access permissions. Circle the correct access permissions for the owner? a. – b.rwx c. r - d. - - e. r w -20. The link (In) command does not copy a file; it merely assigns another name to the same file by creating a new directory entry. Circle the correct answer. a. True b. False 21. What commercial or open version of Linux you have been using in this lab? Circle the correct answer. c) Ubuntu a. RedHat b. Debian d. Gentoo e. X Windows 22. What is the name of the default shell that you have logged into in this lab? Circle the correct answer. a. Korn shell b. C shell c. Bourne shell (d.)Bourne Again shell or Bash shell e. Joy shell 23. What command do you use to log off from Linux? Circle the correct answer. a. CTRL-U b. end c. logout or exit d. finish e. terminate 24. Unix was created in _ Circle the correct answer. a. 1980's (b.)1970's c. 1960's d. 1990's e. 2000's . Circle the correct answer. 25. Linux was created by a. Ken Thompson b. Dennis Ritchie c. Bill Joy d. Brian Kernighan e. Linus Torvalds

26. 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.

__Xiaoyin Druen______

27. Describe briefly which commands did not work and/or which places in the tutorial need improvement/clarification.

The commands worked fine with me. I think it will take time to get use to them, especially the vi editor. The content I typed was not shown with cat. I did see the content as I typed and used :wq when I closed it.

```
xcdrue01@mercury: ~/letters
                                                                                                         ×
anschr04 cmdouc01 dvpate01
                                                                                                              n0r ^
apball03 cmfors04 dvpate04 hdgrub01 jjgray02 kdcama01 mejonel3
aredel01 cmlanc04 dxcorn02 heartm01 jkdavi09 kdcamp01 mgbats01
asbroo06 cmllas01 e0lope04 hfmoha01 jkhenn04 kdcamp05 mjbroe01
athunt04 cmport05 eacors02 hgpark01 jkschu04 kemchu01 mjfiel02
awcunn01 cmvoge03 ebmurr02 hjhett02 jlbenn07 khnguy02 mjhern04
awhick02 cnwelc01 ebquat01 hoalsa02 jlhall22 khride01 mjlind06
awphil03 cpabel01 ecbarn01
                                                  ihmill01 jmcart09 klwell02 mjpayn08
b0berd01 cqpich01 ecbarn03
xcdrue01@mercury:/home$ cd
xcdrue01@mercury:~$ pwd
/home/xcdrue01
xcdrue01@mercury:~$ 1s
book letters programs
xcdrue01@mercury:~$ cd letters
xcdrue01@mercury:~/letters$ vi tom
xcdrue01@mercury:~/letters$ ls
tom
xcdrue01@mercury:~/letters$ vi dick
xcdrue01@mercury:~/letters$ vi harriet
xcdrue01@mercury:~/letters$ 1s
dick harriet tom
xcdrue01@mercury:~/letters$ cat tom
xcdrue01@mercury:~/letters$ cat tom dick harriet
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