CIS-350 Infrastructure Technologies Lab 5 Report

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Report Re	e total number of points granted for this lab is 50. The answers to 19 questions in this Lab 5 port are worth 30 points. The other 20 points you earn for the hand-on work with Linux. You st login to your Ubuntu Linux account on the Mercury server and work all of the commands in CIS-350-Lab5-Linux Command Prompt.pdf. If you follow the Lab 5 instructions carefully, you ould have all the required directories and files stored in or under your Linux home directory. I go the Linux account of every student to check if the hands-on work was done. If I do not see a 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-Lab5-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.	
1.	What does the <i>echo \$SHELL</i> command do? Describe brieflyIt tells you which shell is the log in shell
2.	What command would you use to output the directory listing (in a long form and including invisible files) to both the computer screen and file <i>Names</i> at the same time?
3.	Assume file <i>Names</i> contains several spelling errors. What command would you use to find these errors in the file?spell Names
4.	Assume that you created a script file named <i>displaymenu</i> . What command would you use to execute the script file?/displaymenu
5.	What command would you use to display the first 5 lines in file <i>Prog2.c</i> ?
6.	What command would you use to display the calendar for year 2021?cal 2021
7.	What command would you use to put a shell to sleep for 50 seconds?sleep 50
8.	What would the command <i>wc -w Names</i> generate? (<i>Names</i> is a file.) it would generate the number of words in the file Names
9.	What command would you use to find all occurrences of word <i>Joe</i> in file <i>Names</i> ? grep Joe Names
10.	What command displays the current date?date
11.	What command clears the screen?clear

12. What does a command chmod u-w+rx designmenu do? Briefly describe. ______this command grants you permission to execute the desigmnenu file_____ 13. What command allows the user to check Linux environment, i.e., how environmental variables are set up? _____ set 14. What command is derived from the physical device called T-joint attached to a water pipe, for example? (The T-joint lets water out from one source to two outlets.) 15. What command allows you to change the Linux level 1 prompt? ____PS1___ 16. What are the two modes that the *vi* editor uses? insert mode and command 17. The Is -al designmenu command displayed the following attributes of file designmenu. Describe all attributes of file designmenu, including the 3 groups of users, access permissions given to each of the 3 groups of users and the permission types, the name of the owner, size of the file, date, and the name of the file. - rwx r-x --iacobb02 850 Mar 13 12:30 2021 designmenu the user can read write and execute the file. r is read, w is write, x is execute. r – x means other users can only read and execute the file. Jacobb02 is the user. 850 is the size of bytes of the file. Then you have month, day, time, and year. Designmenu is the name of the file 18. Look at the Linux directory structure below. Write an absolute path that starts at the root directory (/) and leads to file pay? _____/home/jmzura01/letters/pay_____ bin usr dev etc home boot tmp jmzura02 jbcobb10 programs book letters prog1 prog2 pay 19. Look at the Linux directory structure above. Assume that your current directory is home. Write a relative path that leads to file pay? ____jmzura01/letters/pay_____ 20. 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 21. Describe briefly which command(s) did not work and/or what places in the lab could be improved. When writing out the designmenu program, on the pdf, the #!/bin/ksh statement isn't at the top

of where the file starts. I'm guessing that's why I kept getting the do syntax error in my designmenu file. I copied the designmenu file from the tmp directory and that was the only difference I noticed.