

**CIS-350**  
**Infrastructure Technologies**  
**Lab 3 Report**

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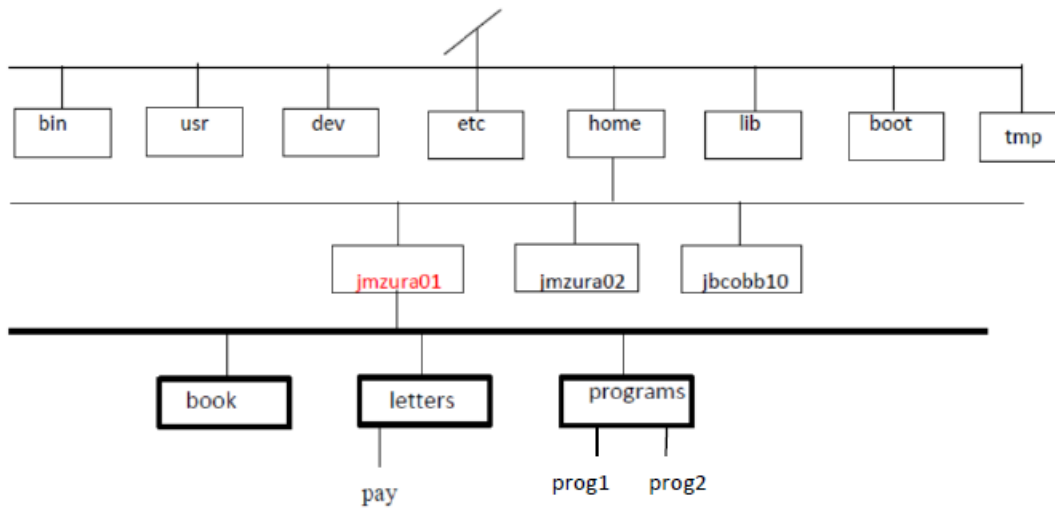
NOTE 1: Linux commands, filenames, options, etc. are **case sensitive**. The vast majority of them is written in **lower case**. For example, filenames John, JOHN, and john represent three different files.

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.

1. What command displays your working directory? **pwd**
2. What command moves you to the parent directory? **cd /parent**
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 -a**
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 *ls* command? **man ls**
8. What command would you use to sort data in the ascending order coming from file *MyData* and redirect (route) the sorted output to file *MyDataSorted*? (Watch the lower and upper case!)

**sort -o MyData > MyDataSorted**

9. Display the content of the directory in a long form. Include invisible files and protect the directory list from scrolling off the screen. **ls -al | more**
10. What command would you use to open the *nano* 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?  
**the cat types out what ever is in the file named students and then changes that destination to the letters file.**
15. Assume that your home directory is your login directory. Write a command that
  - (a) creates directory named *mary3* in your home directory  
**mk dir 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.  
**it displays the contents of tom1 and sorts it in acceding order by first letter of each line**
17. Look at the Linux directory diagram below. Circle the correct absolute path to file *prog1*?
  - a. /home/jmzura01/programs/prog1
  - b. /home/jmzura02/letters/prog1
  - c. /home/jmzura01/letters/prog1
  - d. /home/jmzura01/letters/pay
  - e. programs/prog1



18. Look at the Linux directory diagram above. You are already in directory *jmzura01*. 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
- e. programs/prog1

19. You have typed the command */s -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. r w x
- c. r - -
- d. - - -
- e. r w -

20. The link (*ln*) 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.

- a. RedHat
- b. Debian
- c. Ubuntu
- 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

25. Linux was created by \_\_\_\_\_. Circle the correct answer.

- a. Ken Thompson
- b. Dennis Ritchie
- c. Bill Joy
- d. Brian Kernighan
- e. Linus Torvalds

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

**it worked fine**