

Lab Quiz 01

Time: 20 Minutes

Marks: 25

Quiz will be cancelled if any student is found looking at his/her neighbor's paper or using any unfair mean

1.

a) Write a command to set the date of system

[5]

Date -s "Tue oct 15 00:00:00Pkt2000"

b) Write a command that perform numeric sort on first column of file "f1.txt"

Sort -n -k1 f1.txt

c) Write a command that display duplicate lines in a file "f1.txt".

Unique -d f1.txt

d) Write a command that display hidden files in present working directory.

Ls -a

e) Write a single command to count the number of lines in /etc/passwd.

Wc -l /etc/passwd

2. Describe difference between commands "comm" and "cmp" also explain the output format of "comm".

Comm: files should be sorted , it will compare line by line

Comm f1 f2

Unique f1	Unique f2	Common in both
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Cmp: compare two files byte by byte

3. Write name of different modes of vim.

[1]

- **Command mode**
- **Insert mode**
- **Last line mode**

4. Write 3 types of shell and its features.

[2]

(Any three)

- **BASH**
- **Bourne shell**
- **Korn shell**
- **C shell**
- **TC shell**

Features:

- Execute program in foreground and background
- Variables
- Flow control: abilities like if else loops
- Functions
- Name completion by tab
- Command line editing
- Command history

5. Explain interactive and non interactive modes of shell. [2]

Interactive: User interact with shell by giving input command and see there resukts on screen.

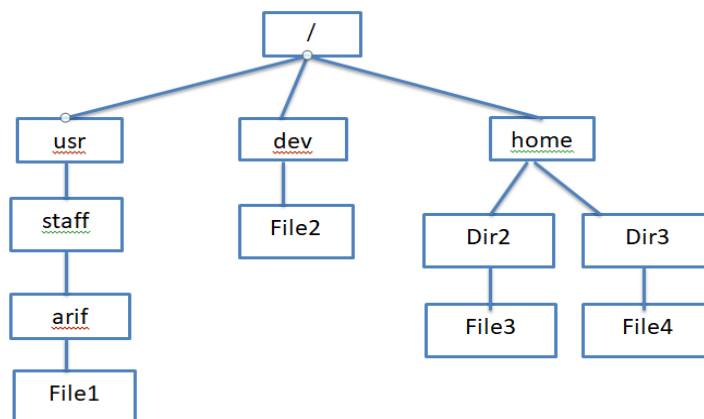
non interactive: shell do not interact with user directly it reads commands from file which you have written.

6. What is difference between “env ” and “set” [2]

Env: Display list of exported variables only.

Set: List all variables including those that are not exported by shell.

7. Mention two reasons of implementing internal shell commands [2]



8. [6]

- a) Your pwd(present working directory) is staff. Write a single command to create three directories namely dir1, dir2 and dir3. Dir1 should be made in staff directory. Dir2 and dir3 should be made under home directory.(Use relative path only)

mkdir -p dir1 ../../home/dir2 ../../home/dir3

- b) Write a command to create an archived and compressed file with name of myarchive.tar.gz of the directory tree under the staff (include staff subdirectory).

Tar cvf myarchive.tar /usr/staff

Gzip myarchive.tar

- c) Your pwd is Dir2. Write a single command to move File3 to the directory arif. Use absolute path only.

mv f3 /usr/staff/arif

9. [3]

- a) Write a command which display currently logged in user name.

whoami

b) Write a command which displays 2 files (f1.txt and f2.txt) concatenated horizontally.

past f1.txt f2.txt

c) Write a command that displays Column 1 and 2 of a file f1.txt separated by "-" (hyphen).

cut -f1,2 -d "-" f1.txt

10. What is a hypervisor? Draw and label diagram that describes the concept.

[2]

Hypervisor is a virtual machine manager which allows multiple guest os t run concrement on physical host computer.

