

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 results on screen.

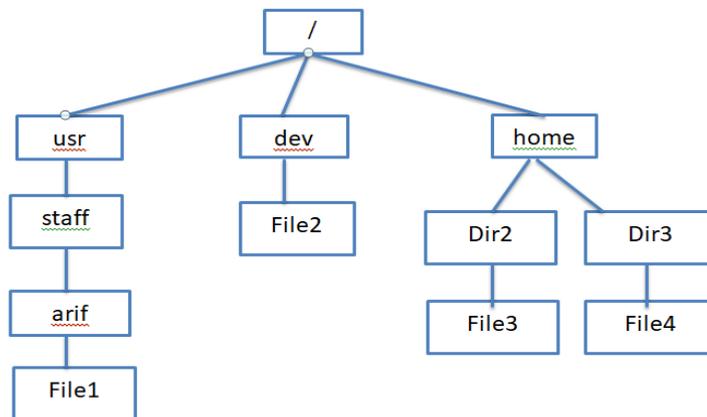
non interactive: shell do not interact with user directly it reads commands from file which you have written.

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.

`cat 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.

