

### Assignments 03 :-

Any 10 commands with minimum 5 options.

① Command :- `ls` - list directory contents.

options :-

- a :- Include hidden files
- l :- Use a long listing format
- h :- display sizes in human-readable format (eg, 1k, 234M, 2G).
- s :- Sort by file size
- x :- Sort by file extensions.

② Command :- `grep` - Search for pattern in files

Options :-

- i :- ignore case
- w :- match whole words only
- x :- Only match lines that match pattern exactly
- c :- print only a count of lines that match the pattern
- H :- print the file name for each match.

③ Command :- `find` - search for files in directory hierarchy

options :-

-name :- search for files with certain name

-type :- search for files of a certain type (eg. f for regular file & for directory.)

-size :- search for files with a certain size.

-mtime :- search for files modified within a certain number of days.

-atime :- search for files accessed within a certain number of days.

④ command :- ~~tar~~ tar :- create or extract a tar archive

options :-

-a :- create a new archive

-x :- Extract files from an archive

-f :- Use archive file specified

-z :- compress the archive using gzip

-j :- compress the archive using bzip2

⑤ command :- ps :- Report the process status of current processes

options :-

-a :- show processes for all users

-u :- display the process's owner

-f :- show full command line for each process

-x :- also show processes not attached to a terminal

-o :- specify which fields to output and order in which to display them.



⑥ command - chmod - change file permissions

options -

- u :- Set user ID of file owner or add/remove permissions for the user.
- c :- Only print a msg if a change is made.
- v :- verbosely describe the actions taken.
- R :- Recursively change permissions of directories and their contents.
- F :- Quietly suppress most error msg.

⑦ command :- uname - print system information.

options -

- a :- print all information in following order :-
  - 1] kernel name
  - 2] node name
  - 3] kernel release
  - 4] kernel version
  - 5] machine
  - 6] processor
- m :- print machine hardware name
- n :- print hostname
- p :- print the processor type
- e :- print kernel release

⑧ Command :- chown - change ownership of a file

options :-

- R :- recursively change ownership of directories & their contents.

- v :- verbosely describes actions taken
- c :- only print a msg if a change is made
- f :- quietly suppress most error msg
- reference :- Use owner & group of specified reference file.

⑨ command :- cp - copy files and directories.

options :-

- a - preserves specified attributes (mode, ownership)
- i - prompt before overwriting an existing file
- R - recursively copy directories & their contents
- n - Do not overwrite an existing file
- l - create a hard link instead of a copy.

⑩ command :- sudo (superuser do)

options :-

- b :- run the command in background
- E :- Preserve user's environment variables
- p :- Use an alternative default password prompt.
- s :- Read password from standard input
- u :- Run command as the specified user instead of superuser.