

## 1. Working with Vi editor

- a. Create a file – EditorFile using vi cmd
- b. Insert some text of your choice – i (insert mode)
- c. Practise the following cmds .

### Exiting vi

- i. :q - quit - if you have made any changes, vi will warn you of this, and you'll need to use one of the other quits.
- ii. :w - write to disk
- iii. :w filename - write to disk as filename
- iv. :wq! - write to disk and quit
- v. ZZ - write to disk and quit
- vi. :q! - quit without writing to disk

### Inserting text

- i. a - append text after cursor \*
- ii. A - append text at end of line \*
- iii. i - insert text before cursor \*
- iv. I - insert text at beginning of line \*
- v. o - open a blank line after the current line for text input \*
- vi. O - open a blank line before the current line for text input \*

\*Note: hit ESC (escape) key when finished inserting!

### Deleting text

- i. x - delete character at cursor
- ii. dh - delete character before cursor
- iii. nx - delete n characters at cursor
- iv. dnw - delete n words from cursor
- v. D - delete to end of line
- vi. dd - delete current line
- vii. ndd - delete n lines (start at current line)

### Copying lines

- i. yy - "yank": copy 1 line into buffer
- ii. nyy - "yank": copy n lines into buffer
- iii. p - put contents of buffer after current line
- iv. P - put contents of buffer before current

### Searching / Substituting

- i. /str - search forward for str
- ii. ?str - search backward for str
- iii. n - find next occurrence of current string
- iv. N - repeat previous search in reverse direction
- v. :s/old/new - substitute new for first occurrence of old in current line
- vi. :s/old/new/g - substitute new for all occurrences of old in current line
- vii. :%s/old/new/g - substitute new for all occurrences of old in the entire file

2. User Account management (Become root user) – Create users and groups complete exercise 3 and then perform delete.

- a. Add users – Saurav,Robin,Ronaldo and Messi using useradd cmd
- b. Add groups – Football and Cricket using groupadd cmd
- c. Add Saurav and Robin to Cricket grp using usermod -aG groupname username
- d. Add Messi and Ronaldo to Football grp
- e. Verify using id cmd – id username
- f. Verify using groups cmd – groups username
- g. Add user Dravid to group Cricket – useradd -G groupname username
- h. Add user Neymar to group Football – useradd -G groupname username
- i. Observe the files - /etc/passwd , /etc/shadow , /etc/groups
- j. Create a group players. Add all the users to Players grp.
- k. Delete user Saurav and Messi including their home directory
- l. Remove user Neymar and Dravid from Player grp
- m. Delete group Football using groupdel cmd
- n. Create group Chess and add users Pragg,Anand,vaishala and gukesh
- o. Delete user Pragg and Anand and observe the changes.
- p. Add a user of your choice and add to any grp as primary group
  - i. Usermod -g groupname username
  - ii. Delete this group and observe the changes.

3. File Ownership commands

- a. Cricketers file under your home directory change owner to Saurav using chown
- b. Sample file under your home directory change group to Cricket using chgrp
- c. Change owner and grp of file Footballers using chown
- d. For the CEO directory change owner to Neymar and grp to Football
- e. Observe the changes in its sub directories and files
- f. For the CEO directory change owner to Neymar and grp to Football using -R option
- g. Observe the changes in its sub directories and files