## LINUX ASSIGNMENT

- 1. Create a directory
- 2. Switch to this directory

```
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ sudo mkdir newdir3
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ ls -l
total 52
-rw-rw-r-- 1 rx-gunjans rx-gunjans
                                      0 Feb 21 19:51 abc.txt
drwxr-xr-x 2 rx-gunjans rx-gunjans 4096 Feb 21 14:15 Desktop
drwxr-xr-x 2 rx-gunjans rx-gunjans 4096 Feb 21 14:15 Documents
drwxr-xr-x 3 rx-gunjans rx-gunjans 4096 Feb 21 21:29 Downloads
drwxrwxr-x 3 rx-gunjans rx-gunjans 4096 Feb 21 17:40 IdeaProjects
drwxr-xr-x 2 rx-gunjans rx-gunjans 4096 Feb 21 14:15 Music
drwxrwxr-x 2 rx-gunjans rx-gunjans 4096 Feb 21 19:51 newdir
drwxr-xr-x 2 root
                                   4096 Feb 21 21:51 newdir2
drwxr-xr-x 2 root
                                   4096 Feb 21 21:51 newdir3
                        root
drwxr-xr-x 2 rx-gunjans rx-gunjans 4096 Feb 21 14:15 Pictures
drwxr-xr-x 2 rx-gunjans rx-gunjans 4096 Feb 21 14:15 Public
drwx----- 5 rx-gunjans rx-gunjans 4096 Feb 21 17:39 snap
drwxr-xr-x 2 rx-qunjans rx-qunjans 4096 Feb 21 14:15 Templates
drwxr-xr-x 2 rx-gunjans rx-gunjans 4096 Feb 21 14:15 Videos
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ cd newdir3
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$
```

- 3. Create a normal text file
- 4. Create a hidden text file

```
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$ sudo touch abc.txt
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$ ls
abc.txt efg.txt
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$ mv abc.txt .abc.txt
mv: cannot move 'abc.txt' to '.abc.txt': Permission denied
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$ sudo mv abc.txt .abc.txt
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$ ls
efg.txt
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$ ls -a
... .abc.txt efg.txt
```

- 5. Modify the access of the hidden text file so that it can be edited only by root user.
- 6. Move the hidden file to a your desktop.

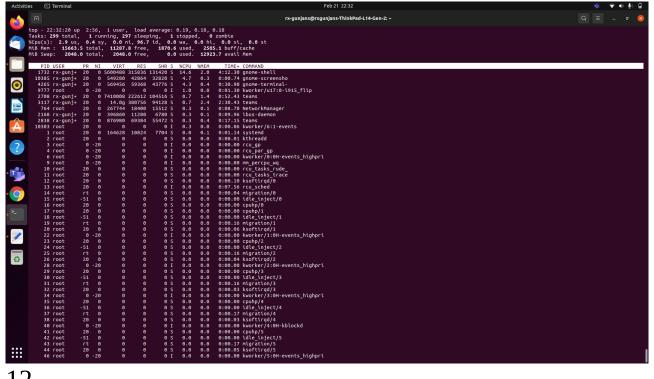
```
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$ sudo chmod 777 .abc.txt
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$ sudo mv .abc.txt /home/desktop
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$ sudo mkdir ndir
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3$ cd ndir
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3/ndir$ sudo touch file1 file2 file3
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/newdir3/ndir$ ls
file1 file2 file3
```

- 7. Create a directory, add 3 files into it and then remove the whole directory.
- 8. Create a new user group.

```
x-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ sudo mkdir ndir
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ cd ndir
x-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/ndir$ sudo touch file1 file2 file3
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/ndir$ ls
file1 file2 file3
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~/ndir$ cd
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ sudo rm -r ndir
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ cd ndir
bash: cd: ndir: No such file or directory
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ sudo groupadd group1
groupadd: group 'group1' already exists
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ sudo groupadd group2
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ sudo useradd user1
useradd: user 'user1' already exists
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ sudo useradd user2
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ usermod -d/home
```

- 9. Create a new user and assign a new user home and the previously created usergroup to the user.
- 10. Create a symbolic link in a different location for the file created in step 3.
- 11. Open google chrome or any other web browser, see its memory usage using top command and end the process using the ps and grep commands.
- 12. Use ssh and scp commands to download and modify files on an external machine.

```
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ ps |grep chrome
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$ ps -f |grep chrome
rx-gunj+ 10550 4397 0 22:36 pts/0 00:00:00 grep --color=auto chrome
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:~$
```



## 12.

```
rx-gunjans@rxgunjans-ThinkPad-L14-Gen-2:-$ ssh lt-meenalr@172.28.2.234
The authenticity of host '172.28.2.234 (172.28.2.234)' can't be established.
ECDSA key fingerprint is SHAZ56:jff7PaA12dqWwMubX6Ut64Nc/Ady20SIfSsY6BbBfqw.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.28.2.234' (ECDSA) to the list of known hosts.
lt-meenalr@172.28.2.234's password:
Welcome to Ubuntu 21.10 (GNU/Linux 5.13.0-28-generic x86_64)
    * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
  1 device has a firmware upgrade available.
Run `fwupdmgr get-upgrades` for more information.
  9 updates can be applied immediately.
 9 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
 The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.
 Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.
 lt-meenalr@ltmeenalr-ThinkPad-L14-Gen-2:-$ who i am
lt-meenalr pts/1 2022-02-22 13:09 (172.28.1.223)
lt-meenalr@ltmeenalr-ThinkPad-L14-Gen-2:-$ whoiam
   whoiam: command not found
 whoian: command not found

tt-meenalr@ltmeenalr-ThinkPad-L14-Gen-2:-$ nano abc.txt

lt-meenalr@ltmeenalr-ThinkPad-L14-Gen-2:-$ scp abc.txt lt-meenalr@172.28.2.234

lt-meenalr@ltmeenalr-ThinkPad-L14-Gen-2:-$ scp abc.txt lt-meenalr@172.28.2.234 /home

cp: cannot create regular file '/home/abc.txt': Permission denied

cp: cannot create regular file '/home/lt-meenalr@172.28.2.234': Permission denied

lt-meenalr@ltmeenalr-ThinkPad-L14-Gen-2:-$ scp abc.txt lt-meenalr@172.28.2.234 ls
 ls: No such file or directory

lt-meenalr@ltmeenalr-ThinkPad-L14-Gen-2:~$ ls

abc.txt Desktop dir Documents Downloads lt-meenalr@172.28.2.234 Music new_file Pictures Public res snap Templates Videos

lt-meenalr@ltmeenalr-ThinkPad-L14-Gen-2:~$
```