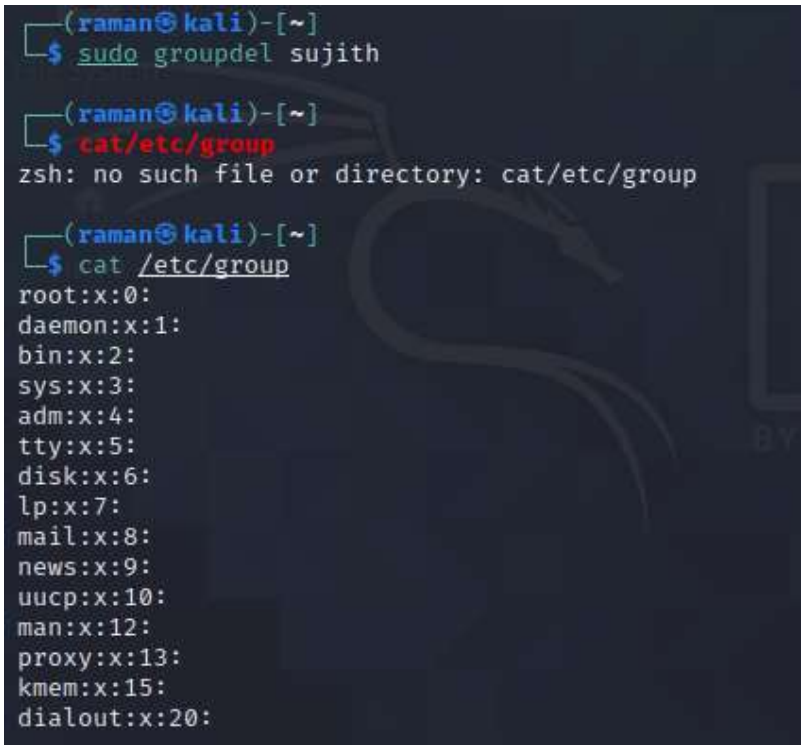
- **groupadd :**

- **groupadd** command creates a new group account using the values specified on the command line and the default values from the system.
- #gropuadd student

- **groupdel:**

groupdel command is used to delete a existing group. It will delete all entry that refers to the group, modifies the system account files, and it is handled by superuser or root user.



usermod:

usermod command is used to change the properties of a user in Linux through the commandline

- command-line utility that allows you to modify a user's login information
- #usermod --help
- #usermod –u 2000 Tom

```
┌──(raman㉿kali)-[~]
└─$ sudoo usermod -c "hello" raman
zsh: command not found: sudoo

┌──(raman㉿kali)-[~]
└─$ sudo usermod -c "hello" raman

┌──(raman㉿kali)-[~]
└─$ cat /etc/passwd
root:x:0:0:root:/root:/usr/bin/zsh
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
```

groups:

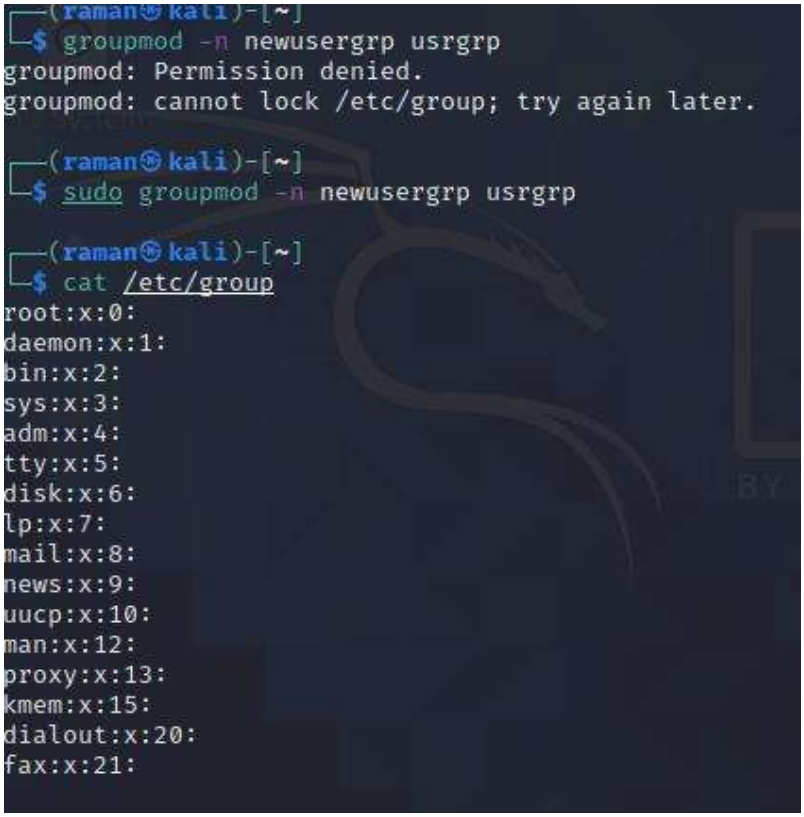
- print the groups a user is in
- #groups alice

```
┌──(raman㉿kali)-[~]
└─$ groups
raman cdrom floppy sudo audio dip video plugdev netdev bluetooth scanner ka
boxer

┌──(raman㉿kali)-[~]
└─$
```

groupmod:

- The groupmod command modifies the definition of the specified group by modifying the appropriate entry in the group database.
- # groupmod -n group1 group2



- **chmod:**

- To change directory permissions of file/ Directory in Linux.

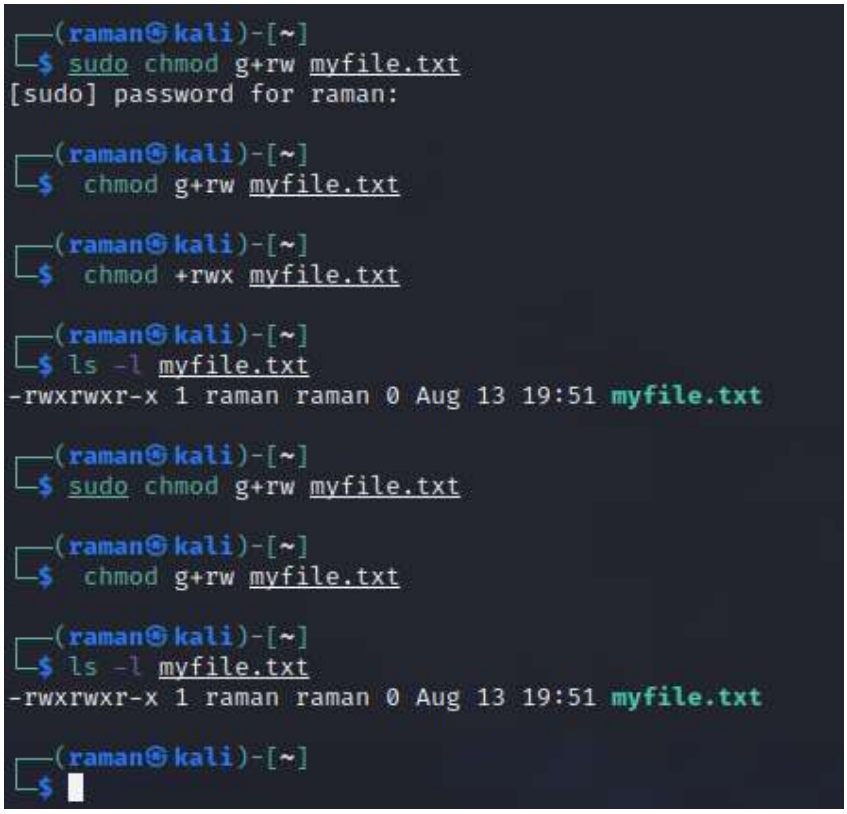
  #chmod whowhatwhich file/directory

- **chmod +rwx filename** // To add permissions.
- **chmod -rwx directoryname** // To remove permissions.
- **chmod +x filename** //To allow executable permissions.
- **chmod -wx filename** // to take out write and executable permissions.

  #chmod u+x test

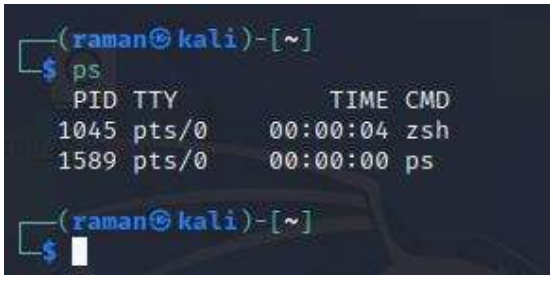
  #chmod g-rwx test

  #chmod o-r test



- **ps:**

- The ps command, **short for Process Status**, is a command line utility that is used to display or view information related to the processes running in a Linux system.
- PID – This is the unique process ID
- TTY – This is the type of terminal that the user is logged in to
- TIME – This is the time in minutes and seconds that the process has been running
- CMD – The command that launched the process #ps -a



- **chown:**

The chown command allows you to change the user and/or group ownership of a given file, directory.

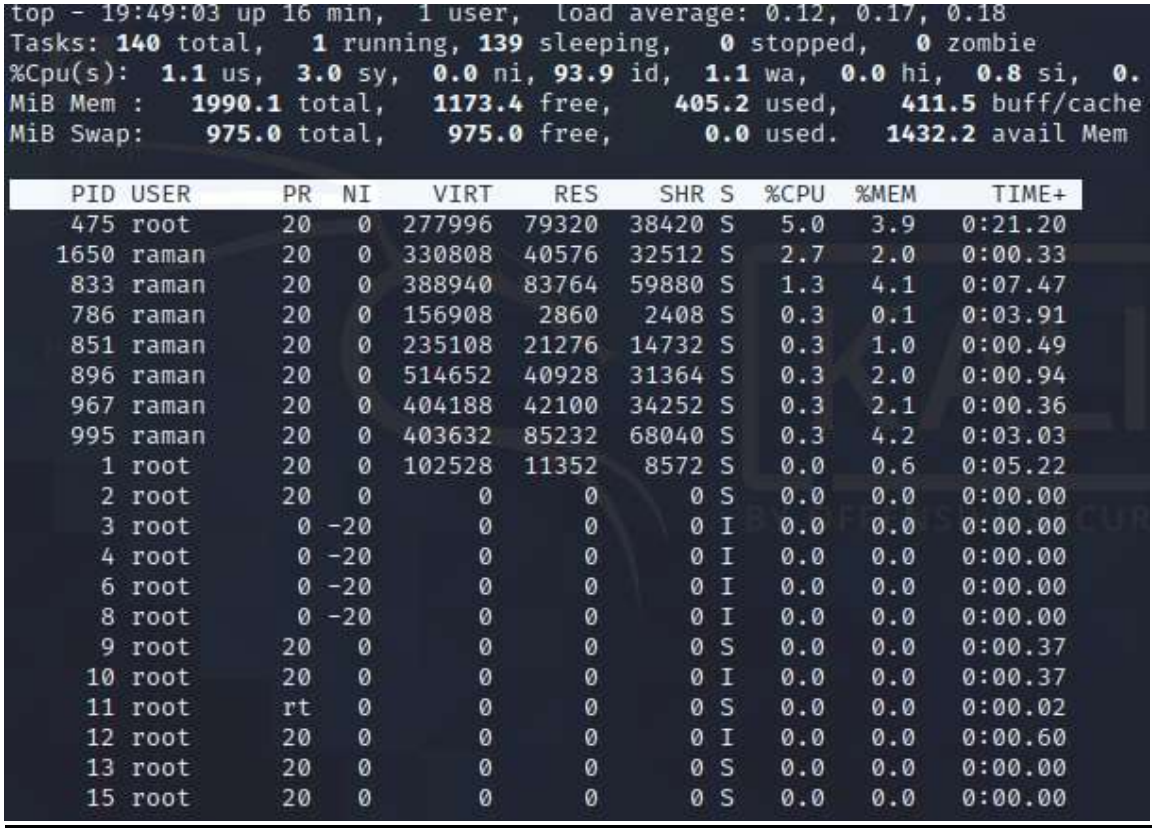
- #chown Tom Test

- **id:**

  id command in Linux is **used to find out user and group names** and numeric ID's (UID or group ID) of the current user or any other user in the server. List out all the groups a user belongs to. Display security context of the current user

- **top:**

  top command is used to show the Linux processes. It provides a dynamic real-time view of the running system. Usually, this command shows the summary information of the system and the list of processes or threads which are currently managed by the Linux Kernel.



```
top - 19:49:03 up 16 min,  1 user,  load average: 0.12, 0.17, 0.18
Tasks: 140 total,   1 running, 139 sleeping,   0 stopped,   0 zombie
%Cpu(s):  1.1 us,  3.0 sy,  0.0 ni, 93.9 id,  1.1 wa,  0.0 hi,  0.8 si,  0.
MiB Mem :   1990.1 total,   1173.4 free,    405.2 used,    411.5 buff/cache
MiB Swap:    975.0 total,    975.0 free,      0.0 used.   1432.2 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+
    475 root      20   0  277996  79320  38420 S   5.0   3.9   0:21.20
   1650 raman     20   0  330808  40576  32512 S   2.7   2.0   0:00.33
    833 raman     20   0  388940  83764  59880 S   1.3   4.1   0:07.47
    786 raman     20   0  156908   2860   2408 S   0.3   0.1   0:03.91
    851 raman     20   0  235108  21276  14732 S   0.3   1.0   0:00.49
    896 raman     20   0  514652  40928  31364 S   0.3   2.0   0:00.94
    967 raman     20   0  404188  42100  34252 S   0.3   2.1   0:00.36
    995 raman     20   0  403632  85232  68040 S   0.3   4.2   0:03.03
      1 root      20   0  102528  11352   8572 S   0.0   0.6   0:05.22
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.00
      3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00
      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00
      8 root       0 -20       0      0      0 I   0.0   0.0   0:00.00
      9 root      20   0       0      0      0 S   0.0   0.0   0:00.37
     10 root      20   0       0      0      0 I   0.0   0.0   0:00.37
     11 root      rt   0       0      0      0 S   0.0   0.0   0:00.02
     12 root      20   0       0      0      0 I   0.0   0.0   0:00.60
     13 root      20   0       0      0      0 S   0.0   0.0   0:00.00
     15 root      20   0       0      0      0 S   0.0   0.0   0:00.00
```