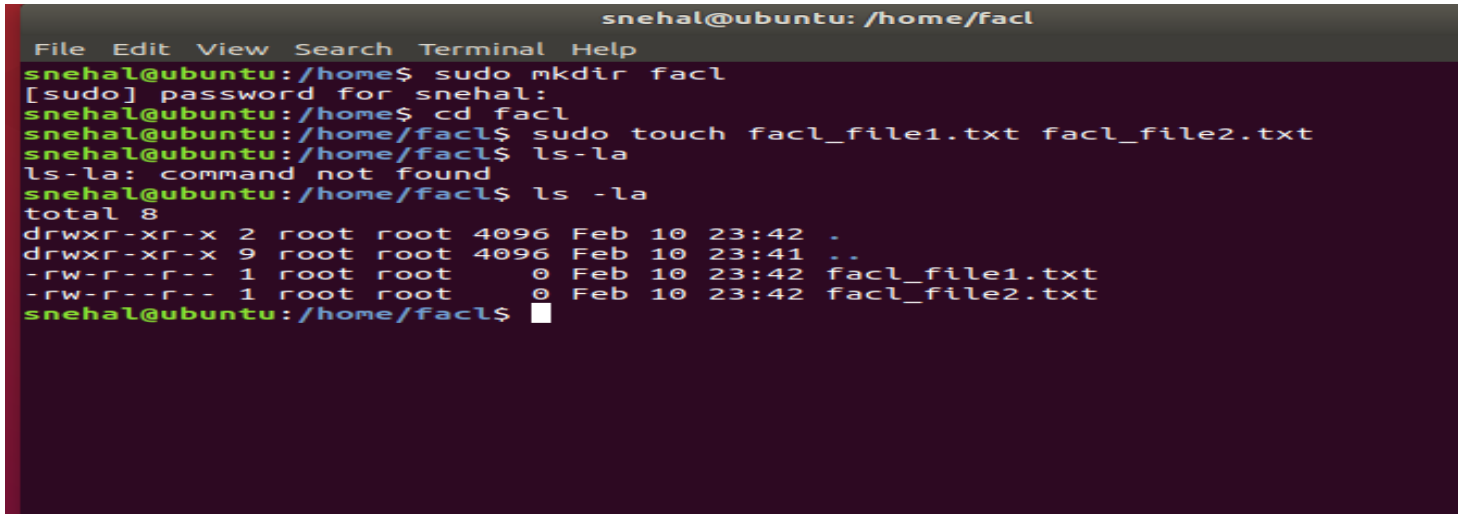
Advanced/Special Permissions

-Snehal Deshmukh

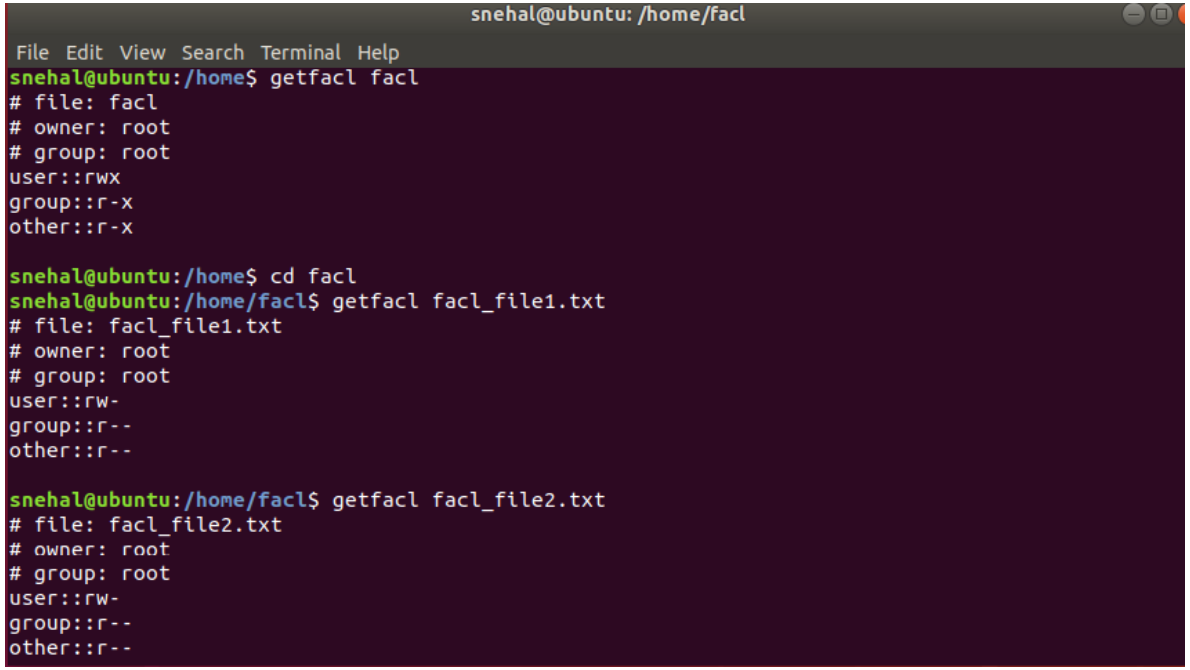
Assignmet

1. create 2 user - user1_facl and user2_facl
2. create a grp facl_grp
3. facl/facl_file1.txt and facl/facl_file2.txt
4. this group should be given permission in a way that any user belongs to this group can edit the mentioned 2 files.

Make **directory** facl and **file** facl_file1.txt and facl_file2.txt.
Check permission for it :



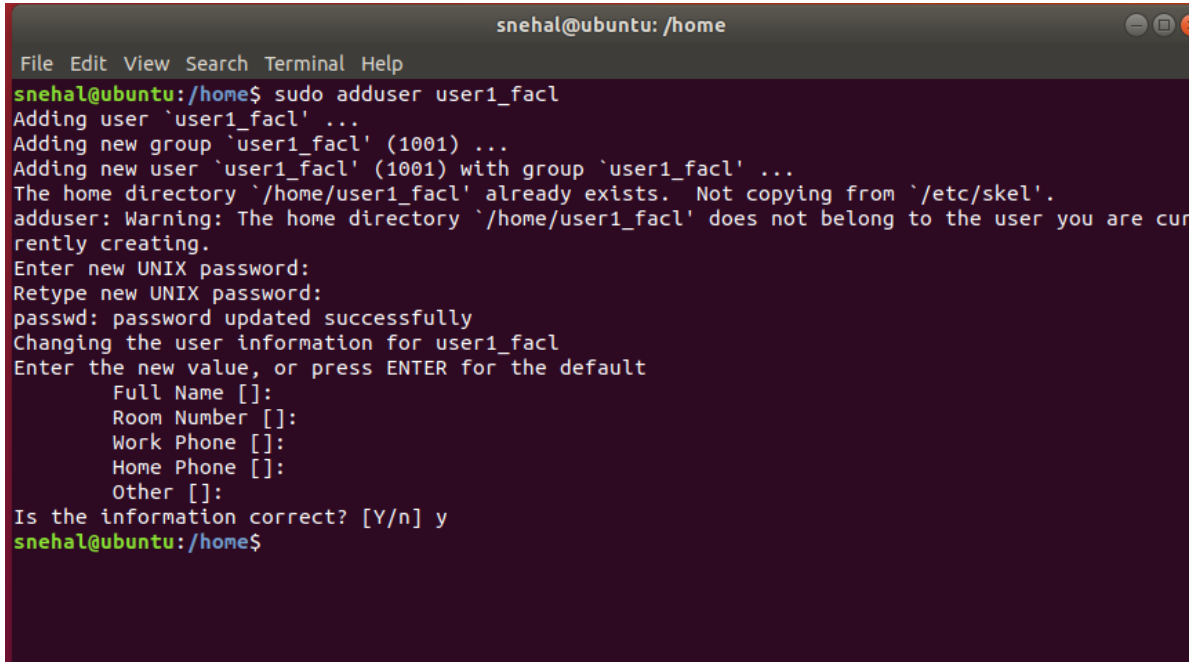
- If we want to check details of files or directory we can use getfacl.

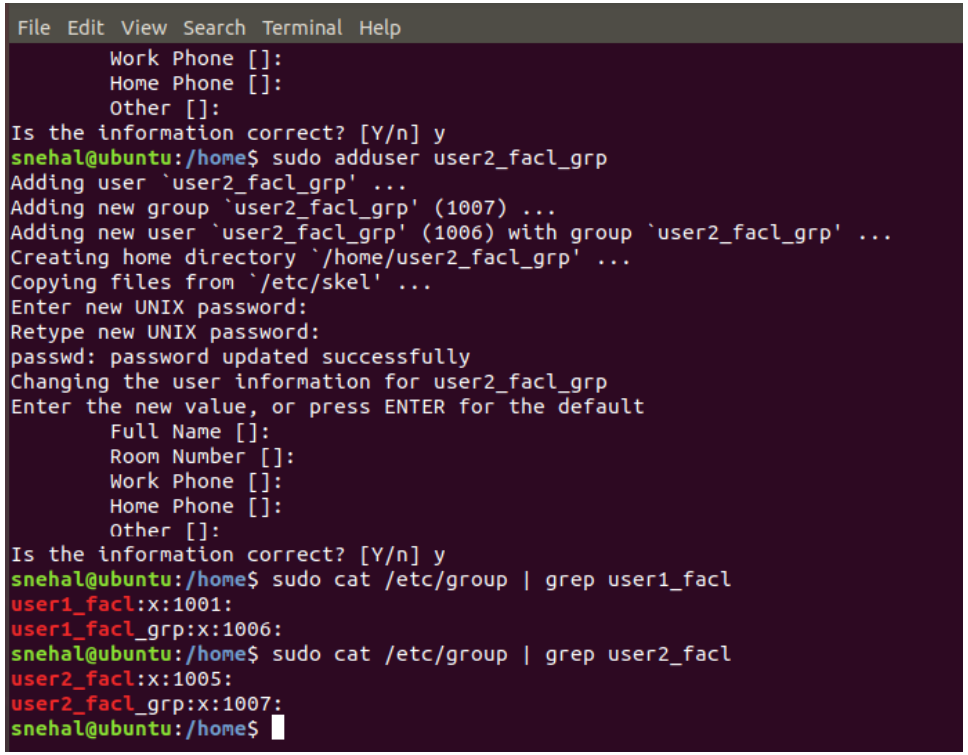


- Create **facl_grp**

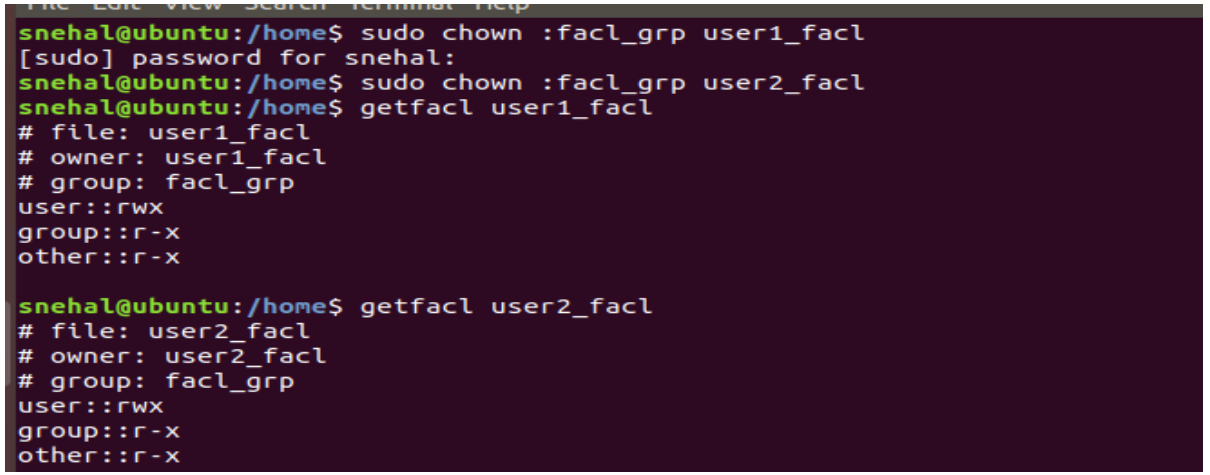
```
snehal@ubuntu:/home/facl$
snehal@ubuntu:/home/facl$ sudo groupadd facl_grp
```

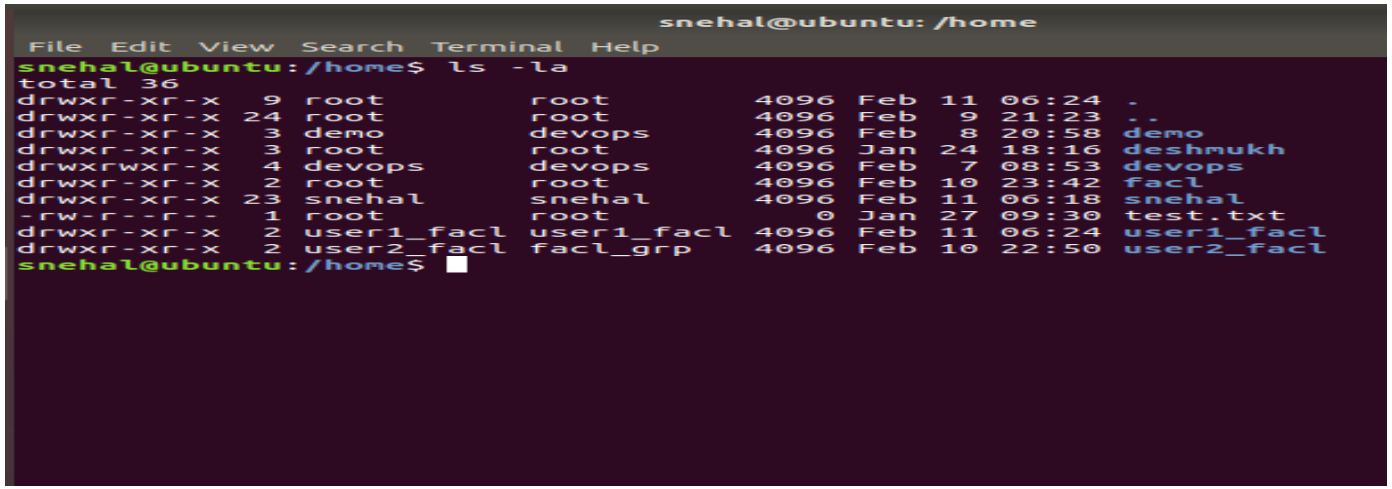
- Create **2 users**: user1_facl and user2_facl



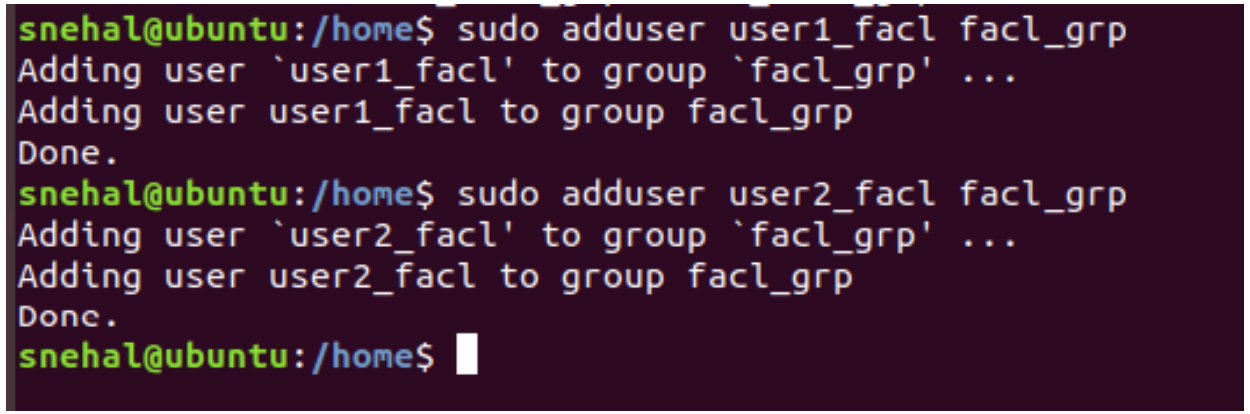

File Edit View Search Terminal Help
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] y
snehal@ubuntu:/home$ sudo adduser user2_facl_grp
Adding user `user2_facl_grp' ...
Adding new group `user2_facl_grp' (1007) ...
Adding new user `user2_facl_grp' (1006) with group `user2_facl_grp' ...
Creating home directory `/home/user2_facl_grp' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for user2_facl_grp
Enter the new value, or press ENTER for the default
Full Name []:
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] y
snehal@ubuntu:/home$ sudo cat /etc/group | grep user1_facl
user1_facl:x:1001:
user1_facl_grp:x:1006:
snehal@ubuntu:/home$ sudo cat /etc/group | grep user2_facl
user2_facl:x:1005:
user2_facl_grp:x:1007:
snehal@ubuntu:/home$

Primary **group change** of both users :

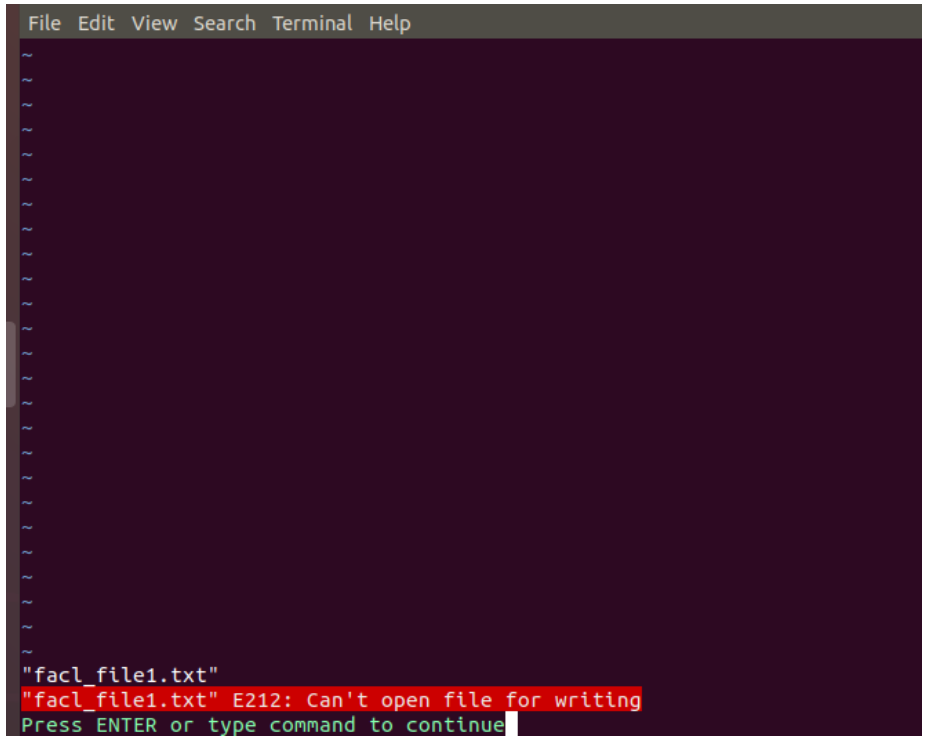



snehal@ubuntu: /home
File Edit View Search Terminal Help
snehal@ubuntu:/home$ ls -la
total 36
drwxr-xr-x 9 root root 4096 Feb 11 06:24 .
drwxr-xr-x 24 root root 4096 Feb 9 21:23 ..
drwxr-xr-x 3 demo devops 4096 Feb 8 20:58 demo
drwxr-xr-x 3 root root 4096 Jan 24 18:16 deshmukh
drwxrwxr-x 4 devops devops 4096 Feb 7 08:53 devops
drwxr-xr-x 2 root root 4096 Feb 10 23:42 facl
drwxr-xr-x 23 snehal snehal 4096 Feb 11 06:18 snehal
-rw-r--r-- 1 root root 0 Jan 27 09:30 test.txt
drwxr-xr-x 2 user1_facl user1_facl 4096 Feb 11 06:24 user1_facl
drwxr-xr-x 2 user2_facl facl_grp 4096 Feb 10 22:50 user2_facl
snehal@ubuntu:/home$

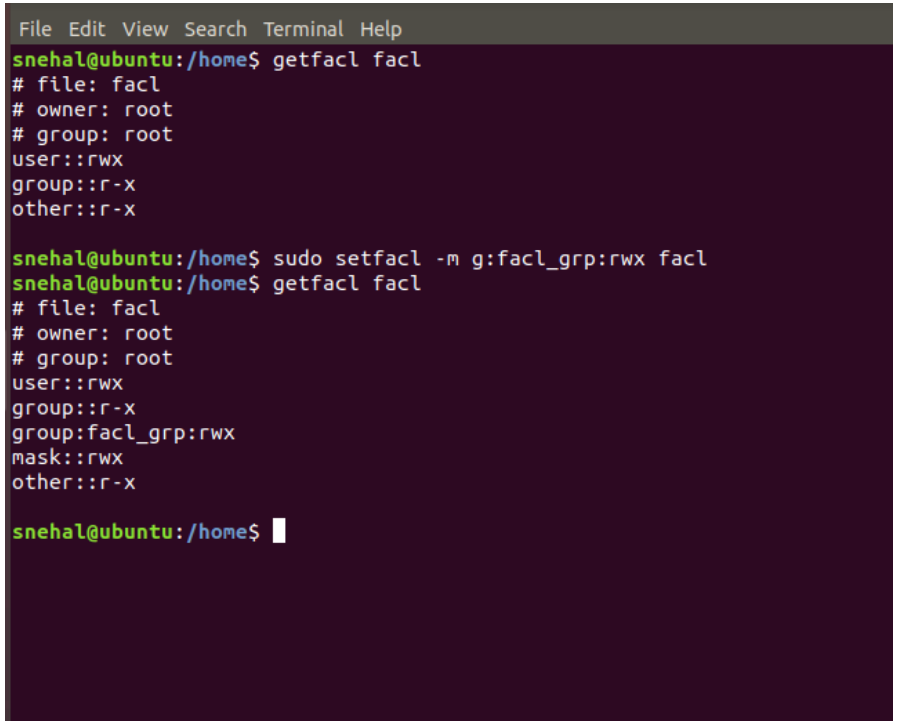
- **Add user**1_facl and user2_facl in **facl_grp** group



- **Trying** to **modify** the facl_file1.txt then user1_facl is **unable** to modify the file



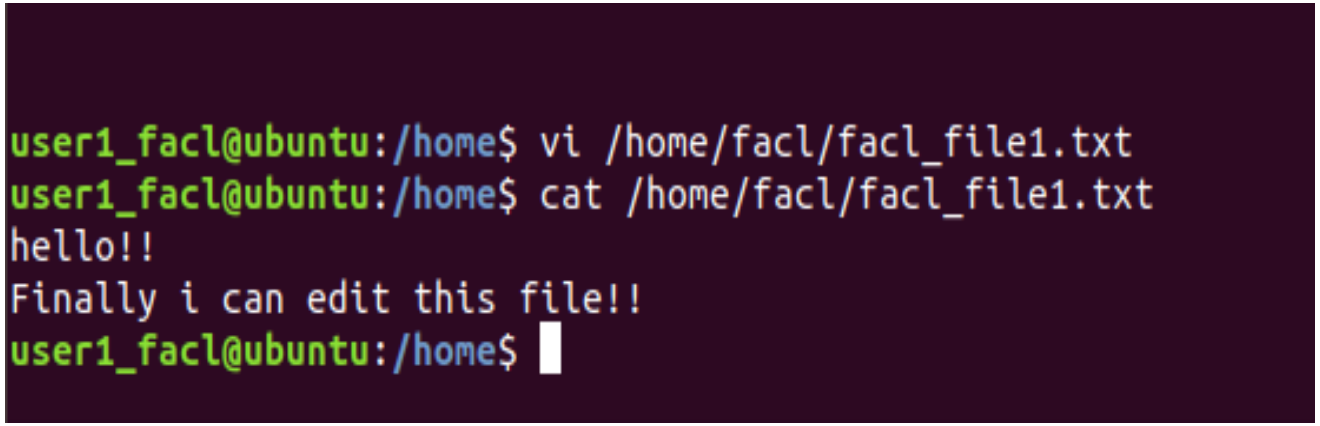
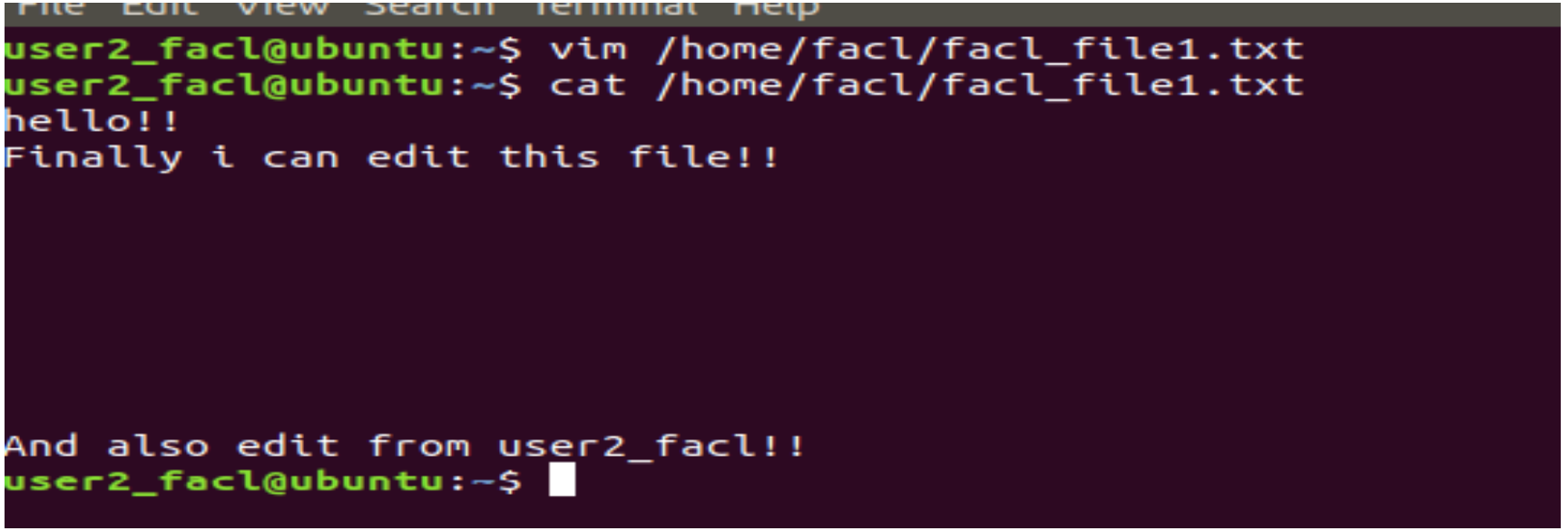
- So we use **setfacl** command & **give access** to the user present in that group can access or modify the file



```
snehal@ubuntu:/home$ sudo setfacl -m g:facl_grp:rw facl/facl_file1.txt
[sudo] password for snehal:
snehal@ubuntu:/home$ sudo setfacl -m g:facl_grp:rw facl/facl_file2.txt
snehal@ubuntu:/home$ getfacl facl/facl_file1.txt
# file: facl/facl_file1.txt
# owner: root
# group: root
user::rw-
group::r--
group:facl_grp:rw-
mask::rw-
other::r--

snehal@ubuntu:/home$
```

- Now we can **able to modify** it from user1_facl:



From **user2_facl** :