

**Ganpat University**  
**(2CSE204) Basics of Operating System and Shell Scripting**

Name: Jaymin Gondaliya

Enrollment No: 23162171007

Sem - 2

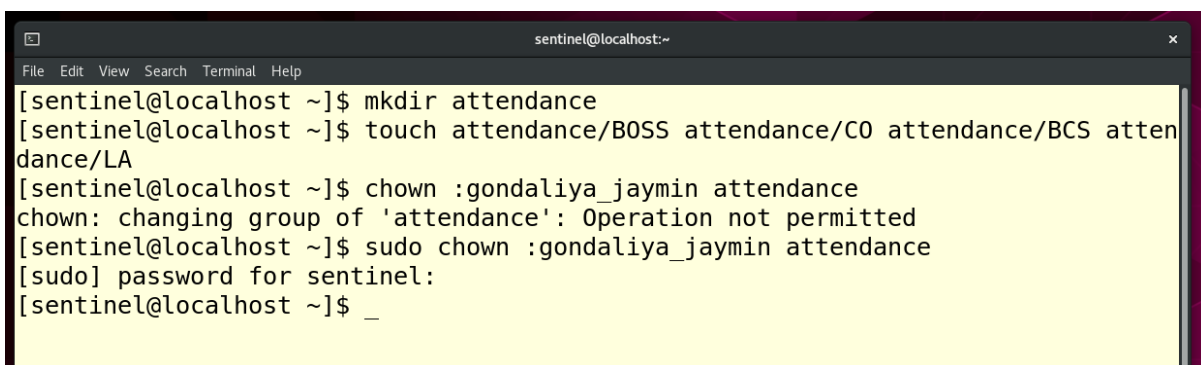
Branch: CS

Class: B

Batch: 25

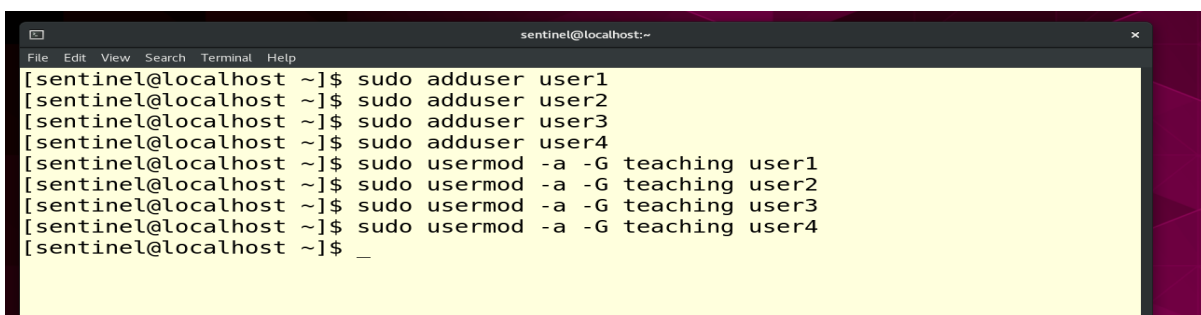
**Practical-7**

1. There is a directory named **attendance** and its group owner is **your\_name**.  
Command - mkdir attendance , touch attendance/BOSS attendance/CO attendance/BCS attendance/LA



```
sentinel@localhost:~  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ mkdir attendance  
[sentinel@localhost ~]$ touch attendance/BOSS attendance/CO attendance/BCS attendance/LA  
[sentinel@localhost ~]$ chown :gondaliya_jaymin attendance  
chown: changing group of 'attendance': Operation not permitted  
[sentinel@localhost ~]$ sudo chown :gondaliya_jaymin attendance  
[sudo] password for sentinel:  
[sentinel@localhost ~]$ _
```

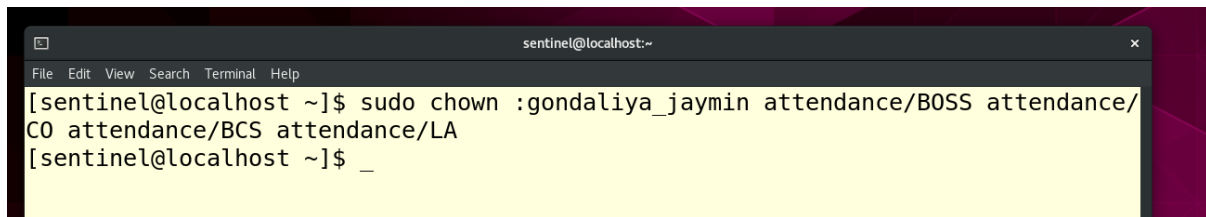
2. The group **teaching** contains four members named **user1** to **user4**.  
Command – sudo adduser user1 , sudo usermod -a -G teaching user1 (same commands for other user)



```
sentinel@localhost:~  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ sudo adduser user1  
[sentinel@localhost ~]$ sudo adduser user2  
[sentinel@localhost ~]$ sudo adduser user3  
[sentinel@localhost ~]$ sudo adduser user4  
[sentinel@localhost ~]$ sudo usermod -a -G teaching user1  
[sentinel@localhost ~]$ sudo usermod -a -G teaching user2  
[sentinel@localhost ~]$ sudo usermod -a -G teaching user3  
[sentinel@localhost ~]$ sudo usermod -a -G teaching user4  
[sentinel@localhost ~]$ _
```

- The attendance directory contains four files BOSS, CO, BCS and LA. The group owner of all these files should also be your\_name

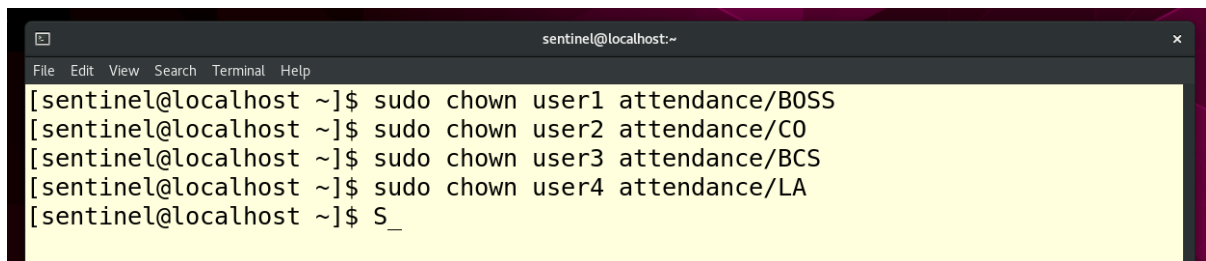
Command – `sudo chown :gondaliya_jaymin attendance/BOSS attendance/CO attendance/BCS attendance/LA`



```
sentinel@localhost:~  
[sentinel@localhost ~]$ sudo chown :gondaliya_jaymin attendance/BOSS attendance/CO attendance/BCS attendance/LA  
[sentinel@localhost ~]$ _
```

- Following mapping should be applied on users and files with write access, and the same should be the owners of respective files: BOSS: user1 ,CO: user2 ,BCS: user3 ,LA: user4

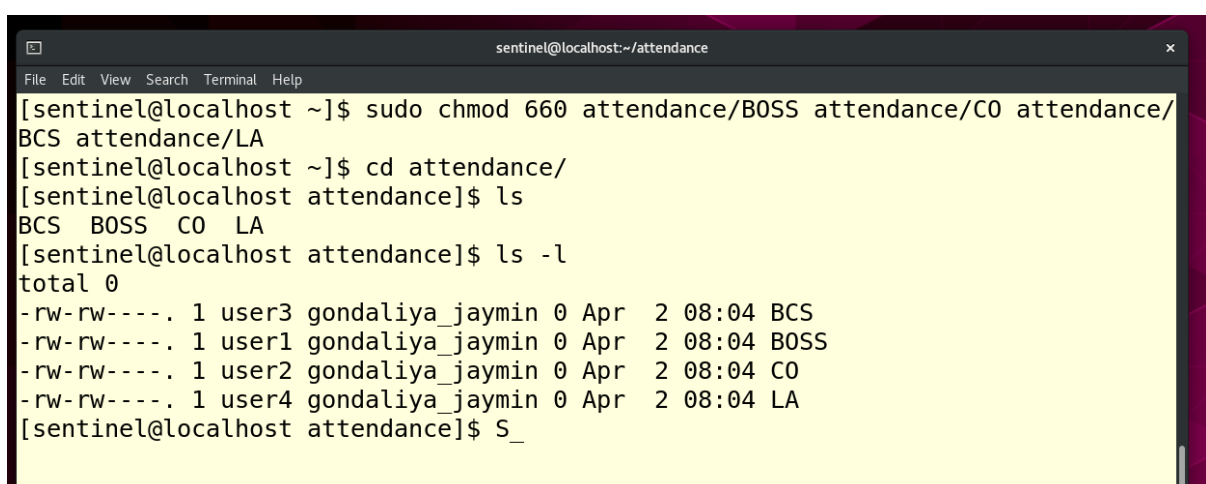
Command – `sudo chown user1 attendance/BOSS (same for other users)`



```
sentinel@localhost:~  
[sentinel@localhost ~]$ sudo chown user1 attendance/BOSS  
[sentinel@localhost ~]$ sudo chown user2 attendance/CO  
[sentinel@localhost ~]$ sudo chown user3 attendance/BCS  
[sentinel@localhost ~]$ sudo chown user4 attendance/LA  
[sentinel@localhost ~]$ S_
```

- Only the owners of these files should be able to delete the files inside the attendance directory.

Command – `sudo chmod 660 attendance/BOSS attendance/CO attendance/BCS attendance/LA`



```
sentinel@localhost:~/attendance  
[sentinel@localhost ~]$ sudo chmod 660 attendance/BOSS attendance/CO attendance/BCS attendance/LA  
[sentinel@localhost ~]$ cd attendance/  
[sentinel@localhost attendance]$ ls  
BCS BOSS CO LA  
[sentinel@localhost attendance]$ ls -l  
total 0  
-rw-rw----. 1 user3 gondaliya_jaymin 0 Apr  2 08:04 BCS  
-rw-rw----. 1 user1 gondaliya_jaymin 0 Apr  2 08:04 BOSS  
-rw-rw----. 1 user2 gondaliya_jaymin 0 Apr  2 08:04 CO  
-rw-rw----. 1 user4 gondaliya_jaymin 0 Apr  2 08:04 LA  
[sentinel@localhost attendance]$ S_
```