9. Delete bad user account

```
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ sudo userdel -r baduser
```

10. Delete the supplementary group called badgroup.

```
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ sudo groupdel badgroup
```

13. Create a folder called myteam in your home directory and change its permissions to read only for the owner.

```
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ mkdir myteam
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ chmod 400 myteam
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ ls -l
total 48
drwxr-xr-x 2 ahmed ahmed 4096 19:27 14 مار Desktop
drwxrwxr-x 3 ahmed ahmed 4096 06:00 15 مار dir1
docs مارً 15 04:20 drwxrwxr-x ومارً 15 docs
مار Documents مار drwxr-xr-x 2 ahmed ahmed 4096 19:27 14
arwxr-xr-x 2 ahmed ahmed 4096 19:27 14 مار Downloads
drwxr-xr-x 2 ahmed ahmed 4096 19:27 14 مار Music
myteam مار 18:34 dr----- 2 ahmed ahmed 4096 مار 81
oldpasswd مار 15 04:43 ahmed ahmed 2894 مار 51 78----
مارَ 10:50 Pictures مارَ 10:50 drwxr-xr-x و مارَ 10:50
مار Public مار 19:27 drwxr-xr-x 2 ahmed ahmed 4096
arwxr-xr-x 2 ahmed ahmed 4096 19:27 14 مار Templates
drwxr-xr-x 2 ahmed ahmed 4096 19:27 14 مار Videos
```

14. Log out and log in by another user

```
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ su islam
Password:
islam@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:/home/ahmed$
```

15. Try to access (by cd command) the folder (myteam)

```
islam@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:/home/ahmed$ cd myteam
bash: cd: myteam: Permission denied
islam@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:/home/ahmed$
```

16. Using the command Line

1. Change the permissions of oldpasswd file to give owner read and write permissions and for group write and execute and execute only for the others (using chmod in 2 different ways)

```
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ ls

Desktop docs Downloads myteam Pictures Templates

dir1 Documents Music oldpasswd Public Videos

ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ chmod 631 oldpasswd

ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ ls -l oldpasswd

-rw--wx--x 1 ahmed ahmed 2894 04:43 15 مار oldpasswd

ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$
```

2. Change your default permissions to be as above.

```
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ umask 146 ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$
```

3. What is the maximum permission a file can have, by default when it is just created? And what is that for directory.

```
For file rw-r--r—
For directory rwxr-xr-x
```

4. Change your default permissions to be no permission to everyone then create a directory and a file to verify.

```
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ umask 777
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ mkdir mvfiles
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ touch newfile
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ ls -l
total 52
drwxr-xr-x 2 ahmed ahmed 4096 19:27 14 مار Desktop
drwxrwxr-x 3 ahmed ahmed 4096 06:00 15 مار dir1
drwxrwxr-x 2 ahmed ahmed 4096 04:20 15 مار docs
مار Documents مار drwxr-xr-x 2 ahmed ahmed 4096 19:27 14
arwxr-xr-x 2 ahmed ahmed 4096 19:27 14 مار Downloads
drwxr-xr-x 2 ahmed ahmed 4096 19:27 14 مار Music
  myfiles مار 18:53 ahmed ahmed 4096 مار 81:53
myteam مار 18 15:34 ahmed ahmed 4096 مار 81 15:34
 ----- 1 ahmed ahmed
                           newfile مار 18:53 18
-rw--wx--x 1 ahmed ahmed 2894 04:43 15 مار oldpasswd
arwxr-xr-x 2 ahmed ahmed 4096 15:52 18 مار Pictures
مار Public مار Public مار Public مار Public
drwxr-xr-x 2 ahmed ahmed 4096 19:27 14 مار Templates
drwxr-xr-x 2 ahmed ahmed 4096 19:27 14 مار Videos
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$
```

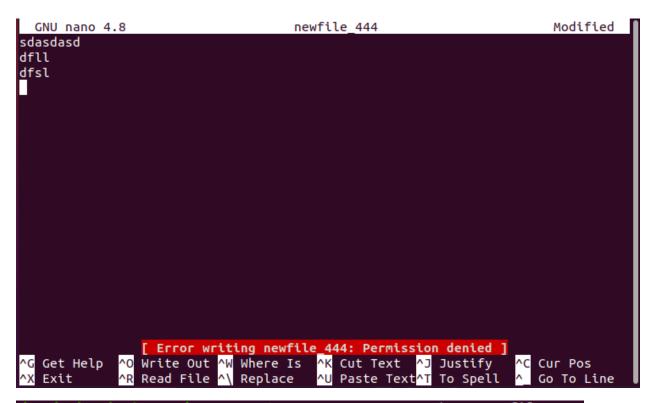
- 17. What are the minimum permission needed for:
 - Copy a directory (permission for source directory and permissions for target parent directory)
 Read and Write
 - Copy a file (permission for source file and and permission for target parent directory)Read and write

3. Delete a file

Write and excute

- 4. Change to a directory
 - excute
- 5. List a directory content (Is command)
- 6. View a file content (more/cat command) read
- 7. Modify a file content write
- 18. Create a file with permission 444. Try to edit in it and to remove it? Note what happened.

```
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ touch newfile_444
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ chmod 444 myfile_444
chmod: cannot access 'myfile_444': No such file or directory
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ chmod 444 newfile_444
ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~$ nano newfile 444
```



ahmed@ahmed-VivoBook-ASUSLaptop-X515JP-X515JP:~\$ rm newfile_444 rm: remove write-protected regular empty file 'newfile_444'?

19. What is the difference between the "x" permission for a file and for a directory?

X meaning execute

x for file meaning the owner or other users can execute file

x for directory meaning the owner or other users can enter the directory and access its contents