9.Delete bad user account

```
nareman@nareman-Inspiron-3521:~/Desktop$ sudo userdel -r baduser
[sudo] password for nareman:
userdel: baduser mail spool (/var/mail/baduser) not found
userdel: baduser home directory (/home/baduser) not found
```

10.Delete the supplementary group called badgroup.

```
nareman@nareman-Inspiron-3521:/home$ groupdel badgroup
groupdel: Permission denied.
groupdel: cannot lock /etc/group; try again later.
nareman@nareman-Inspiron-3521:/home$ sudo groupdel badgroup
[sudo] password for nareman:
nareman@nareman-Inspiron-3521:/home$
```

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

```
nareman@nareman-Inspiron-3521:~$ mkdir myteam
nareman@nareman-Inspiron-3521:~$ ls -l myteam
total 0
nareman@nareman-Inspiron-3521:~$ ls -l
total 40
drwxr-xr-x 2 nareman nareman 4096 20:50 15 مار، Desktop
drwxr-xr-x 2 nareman nareman 4096 19:07 16 مار، Documents
drwxr-xr-x 2 nareman nareman 4096 17:22 16 مار، Downloads
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار، Music
drwxrwxr-x 2 nareman nareman 4096 14:40 18 مار، myteam
drwxr-xr-x 2 nareman nareman 4096 17:45 16 مار، Pictures
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار، Public
drwx------ 3 nareman nareman 4096 02:35 15 مار، snap
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار، Templates
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار، Videos
```

```
nareman@nareman-Inspiron-3521:~$ chmod u-w-x myteam
nareman@nareman-Inspiron-3521:~$ ls -l
total 40
drwxr-xr-x 2 nareman nareman 4096 20:50 15 مار، Desktop
drwxr-xr-x 2 nareman nareman 4096 19:07 16 مار، Documents
drwxr-xr-x 2 nareman nareman 4096 17:22 16 مار، Downloads
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار، Music
dr--rwxr-x 2 nareman nareman 4096 14:40 18 مار، myteam
drwxr-xr-x 2 nareman nareman 4096 17:45 16 مار، Pictures
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار، Public
drwx------ 3 nareman nareman 4096 02:35 15 مار، snap
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار، Templates
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار، Videos
```

14. Log out and log in by another user

```
nareman@nareman-Inspiron-3521:~$ su - Islam Askar
Password:
su: warning: cannot change directory to /home/Islam: No such file or
-sh: 0: Can't open Askar
```

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

15

```
nareman@nareman-Inspiron-3521:~$ cd /home/nareman/myteam
-bash: cd: /home/nareman/myteam: Permission denied
nareman@nareman-Inspiron-3521:~$
```

```
nareman@nareman-Inspiron-3521:~$ su - Islam
Password:
su: warning: cannot change directory to /home/Islam: No such file or
$ cd /home/nareman/myteam
$
```

16. Using the command Line
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

20   (using chmod in 2 different ways)

```
nareman@nareman-Inspiron-3521:~$ sudo chmod u=rw,g=wx,o=x oldpasswd
nareman@nareman-Inspiron-3521:~$ ls -l
total 44
drwxr-xr-x 2 nareman nareman 4096 20:50 15 مارى Desktop
drwxr-xr-x 2 nareman nareman 4096 19:07 16 مارى Documents
drwxr-xr-x 2 nareman nareman 4096 17:22 16 مارى Downloads
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مارى Music
dr--rwxr-x 2 nareman nareman 4096 14:40 18 مارى myteam
-rw--wx--x 1 root    root    2887 19:51 15 مارى oldpasswd
drwxr-xr-x 2 nareman nareman 4096 17:45 16 مارى Pictures
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مارى Public
drwx------ 3 nareman nareman 4096 02:35 15 مارى snap
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مارى Templates
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مارى Videos
```

```
nareman@nareman-Inspiron-3521:~$ ls -l
total 44
drwxr-xr-x 2 nareman nareman 4096 20:50 15 مار Desktop
drwxr-xr-x 2 nareman nareman 4096 19:07 16 مار Documents
drwxr-xr-x 2 nareman nareman 4096 17:22 16 مار Downloads
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار Music
dr--rwxr-x 2 nareman nareman 4096 14:40 18 مار myteam
---------- 1 root    root    2887 19:51 15 مار oldpasswd
drwxr-xr-x 2 nareman nareman 4096 17:45 16 مار Pictures
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار Public
drwx------ 3 nareman nareman 4096 02:35 15 مار snap
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار Templates
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار Videos
nareman@nareman-Inspiron-3521:~$ sudo chmod 631 oldpasswd
nareman@nareman-Inspiron-3521:~$ ls -l
total 44
drwxr-xr-x 2 nareman nareman 4096 20:50 15 مار Desktop
drwxr-xr-x 2 nareman nareman 4096 19:07 16 مار Documents
drwxr-xr-x 2 nareman nareman 4096 17:22 16 مار Downloads
drwxr-xr-x 2 nareman nareman 4096 01:55 15 مار Music
dr--rwxr-x 2 nareman nareman 4096 14:40 18 مار myteam
-rw--wx--x 1 root    root    2887 19:51 15 مار oldpasswd
drwxr-xr-x 2 nareman nareman 4096 17:45 16 مار Pictures
```

Change your default permissions to be as above.

```
nareman@nareman-Inspiron-3521:~$ umask 146 oldpasswd
nareman@nareman-Inspiron-3521:~$ umask
0146
```

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

```
nareman@nareman-Inspiron-3521:~$ mkdir dirnanoo1
nareman@nareman-Inspiron-3521:~$ ls
Desktop    Documents  Music    oldpasswd  Public  Templates
dirnanoo1  Downloads  myteam   Pictures   snap    Videos
nareman@nareman-Inspiron-3521:~$ ls-l
ls-l: command not found
nareman@nareman-Inspiron-3521:~$ ls -l
total 48
drwxr-xr-x 2 nareman nareman 4096 20:50 15 مار Desktop
drw--wx--x 2 nareman nareman 4096 16:57 18 مار dirnanoo1
```

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

```
nareman@nareman-Inspiron-3521:~$ umask 777
nareman@nareman-Inspiron-3521:~$ mkdir dirnanoo2
nareman@nareman-Inspiron-3521:~$ ls -l
total 52
drwxr-xr-x 2 nareman nareman 4096 20:50 15 مار Desktop
drw--wx--x 2 nareman nareman 4096 16:57 18 مار dirnanoo1
d--------- 2 nareman nareman 4096 21:21 18 مار dirnanoo2
```

30 17.**What are the minimum permission needed for:**
Copy a directory (permission for source directory and permissions for target parent directory)
Answer
source directory=read&execute   target directory=write&execute

35

Copy a file (permission for source file and and permission for target parent directory)
Answer   source file =read   target directory=write&execute

40 **delete a file**
write permission

change to a directory
Answer   execute permissions

45

list a directory content
Answer: read permissions

view a file content

50 Answer: read permissions.

modify a file content
Answer: write permission

55

18. Create a file with permission 444. Try to edit in it and to remove it? Note what happened.

```
~
~
~
~
~
~
"file1" [readonly] 0 lines, 0 characters
```

```
nareman@nareman-Inspiron-3521:~$ cat > file1
nareman@nareman-Inspiron-3521:~$ chmod 444 file1
nareman@nareman-Inspiron-3521:~$ touch file1
nareman@nareman-Inspiron-3521:~$ vi file1
nareman@nareman-Inspiron-3521:~$
```

```
nareman@nareman-Inspiron-3521:~$ rm file1
rm: remove write-protected regular empty file 'file1'? y
nareman@nareman-Inspiron-3521:~$ ls
Desktop dirnanoo1 dirnanoo2 Documents Downloads Music myteam oldpasswd Pictures Public snap Templates Videos
nareman@nareman-Inspiron-3521:~$
```

65 19. What is the difference between the "x" permission for a file and for a directory?
Execute for file for programs only
for directories to access the directory and its files