

1. What is the difference between cat and more command?

cat display all content of file

more display some content and you can press enter to show more of content

2. What is the difference between rm and rmdir using man?

rm delete a directory by option r and the file name

rmdir remove a director by the file name only

3. Create the following hierarchy under your home directory

```
total 8
drwxrwxr-x 4 amar amar 4096 02:38 9 أُنشئ dir1
drwxrwxr-x 3 amar amar 4096 02:39 9 أُنشئ docs
amar@amar-Latitude-E6430 ~/Desktop/test1$ man ls
amar@amar-Latitude-E6430 ~/Desktop/test1$ ls -la
total 16
drwxrwxr-x 4 amar amar 4096 02:39 9 أُنشئ .
drwxr-xr-x 7 amar amar 4096 02:34 9 أُنشئ ..
drwxrwxr-x 4 amar amar 4096 02:38 9 أُنشئ dir1
drwxrwxr-x 3 amar amar 4096 02:39 9 أُنشئ docs
amar@amar-Latitude-E6430 ~/Desktop/test1$ ls -LR
.:
dir1 docs

./dir1:
dir11 dir12

./dir1/dir11:
file1

./dir1/dir12:

./docs:
mycv

./docs/mycv:
amar@amar-Latitude-E6430 ~/Desktop/test1$
```

a.Remove dir11 in one-step. What did you notice? And how did you overcome that?

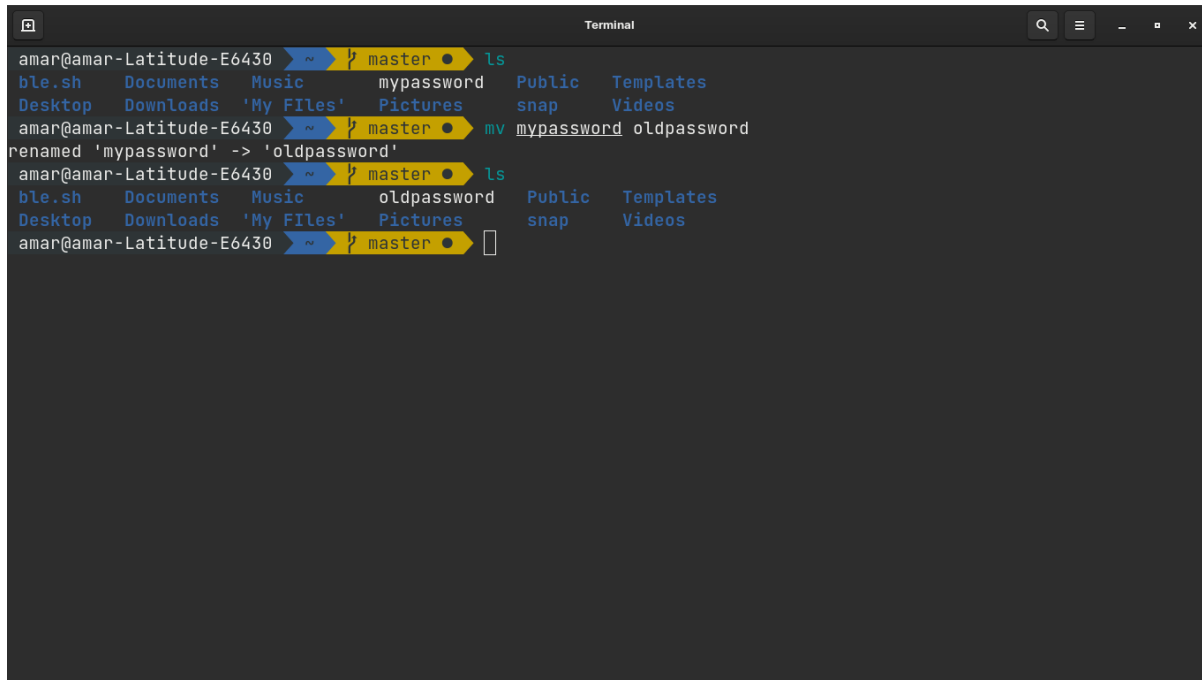
the file1 is removed

because when you delete a directory you delete all content in init

b. Then remove dir12 using rmdir -p command. State what happened to the hierarchy (Note: you are in your home directory).

the command delete dir12 and empty directory in the path (dir1)

4. Copy the /etc/passwd file to your home directory making its name is mypasswd.



```
amar@amar-Latitude-E6430 ~$ ls
ble.sh  Documents  Music      mypassword  Public  Templates
Desktop Downloads 'My Files' Pictures    snap     Videos
amar@amar-Latitude-E6430 ~$ mv mypassword oldpassword
renamed 'mypassword' -> 'oldpassword'
amar@amar-Latitude-E6430 ~$ ls
ble.sh  Documents  Music      oldpassword  Public  Templates
Desktop Downloads 'My Files' Pictures    snap     Videos
amar@amar-Latitude-E6430 ~$
```

6. You are in /usr/bin, list four ways to go to your home directory  
cd ~

cd /home/username/

cd ../../ cd /home/username

cd ../../ cd /home cd /username

7. Display the first 4 lines of /etc/passwd

cat /etc/password | head -n4

8. Display the last 7 lines of /etc/passwd

cat /etc/password | tail -n7

9. Display the man page of the passwd file

10. Display a list of all the commands that contain the keyword passwd in their man page?

```
history | grep password
```

## lab 2

1. Create a user account with the following attribute

```
sudo useradd sprint
```

```
sudo passwd sprint
```

```
sudo useradd -c "sprint academy" sprint
```

2. Create a user account with the following attribute

```
sudo useradd baduser
```

```
sudo passwd baduser
```

```
sudo useradd -c "Bad User" baduser
```

3. Create a supplementary (Secondary) group called pgroup with group ID of 30000

```
groupadd -g 30000 pgroup
```

4- Create a supplementary group called badgroup

```
groupadd badgroup
```

5. Add sprint user to the pgroup group as a supplementary group

```
sudo usermod -a -G pgroup sprint
```

6. Modify the password of sprint's account to password

```
sudo passwd sprint
```

7. Modify sprints's account so the password expires after 30 days

```
sudo usermod -e 2022-09-10 sprint
```

8. Lock bad user account so he can't log in

```
sudo usermod -s /sbin/nologin baduser
```

9. Delete bad user account

```
sudo userdel baduser
```

10. Delete the supplementary group called badgroup

```
sudo groupdel badgroup
```

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

```
mkdir myteam
```

```
chmod u=rwx,g=,o= myteam
```

12. Log out and log in by another user

```
su sprint
```

13. Try to access (by cd command) the folder (myteam) what do you note ?

```
canot cd to myteam
```

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)

```
chomd u=rw,g=wx,o=x oldpasswd
```

```
chomd 631 oldpasswd
```

Change your default permissions to be as above.

`umask 631`

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

for file is 631

for directory 631

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