

# Lab 2- part 2

## Rahma Farag – G2 – Nasr City

### Question 9:

```
rahma@rahma-Lenovo:~$ sudo useradd -c "Islam Askar" -md /home/islam islam
```

```
rahma@rahma-Lenovo:~$ sudo passwd islam
```

New password:

Retype new password:

passwd: password updated successfully

```
rahma@rahma-Lenovo:~$ tail -1 /etc/passwd
```

```
islam:x:1002:1003:Islam Askar:/home/islam:/bin/sh
```

### Question 10:

```
rahma@rahma-Lenovo:~$ sudo useradd -c "Bad User" -md /home/baduser baduser
```

[sudo] password for rahma:

```
rahma@rahma-Lenovo:~$ tail -1 /etc/passwd
```

```
baduser:x:1003:30001:Bad User:/home/baduser:/bin/sh
```

```
rahma@rahma-Lenovo:~$ sudo passwd baduser
```

New password:

Retype new password:

passwd: password updated successfully

```
rahma@rahma-Lenovo:~$ sudo tail -1 /etc/shadow
```

baduser:

```
$6$hvrw2Nr.5qjdWQIY$APROoLmXzrmPD9iBal4A5iqB1jOH3p1gm8NqJw/
```

```
mNkTyPS.VrvHT6XeuXnHcHqznEU26mIqYUdPk9dCHMnWuC1:18935:0:99999:7
```

```
:::
```

### Question 11:

```
rahma@rahma-Lenovo:~$ sudo groupadd -g 30000 pgroup
```

## Question 12:

```
rahma@rahma-Lenovo:~$ sudo groupadd badgroup
```

```
rahma@rahma-Lenovo:~$ tail -2 /etc/group
```

```
pgroup:x:30000:
```

```
badgroup:x:30001:
```

## Question 13:

```
rahma@rahma-Lenovo:~$ sudo usermod -G pgroup islam
```

```
rahma@rahma-Lenovo:~$ id islam
```

```
uid=1002(islam) gid=1003(islam) groups=1003(islam),30000(pgroup)
```

## Question 14:

```
rahma@rahma-Lenovo:~$ sudo passwd islam
```

```
New password:
```

```
Retype new password:
```

```
passwd: password updated successfully
```

```
rahma@rahma-Lenovo:~$$ sudo tail -2 /etc/shadow
```

```
islam:
```

```
$6$nVgGkpBXTbbAxYpy$Kq28fjWfnE45UOiSlqyf6HpsZmWVWRolsRkbeh5Zdk
```

```
DIALO9GNxw8K6iKCatIMJxkipsgpEjO0W6fT18Er9JS1:18935:0:99999:7:::
```

```
baduser:baduser:18935:0:99999:7:::
```

## Question 15:

```
rahma@rahma-Lenovo:~$ sudo chage -M 30 islam
```

```
rahma@rahma-Lenovo:~$ sudo tail -2 /etc/shadow
```

```
islam:
```

```
$6$nVgGkpBXTbbAxYpy$Kq28fjWfnE45UOiSlqyf6HpsZmWVWRolsRkbeh5Zdk
```

```
DIALO9GNxw8K6iKCatIMJxkipsgpEjO0W6fT18Er9JS1:18935:0:30:7:::
```

```
baduser:baduser:18935:0:99999:7:::
```

## Question 16:

```
rahma@rahma-Lenovo:~$ sudo usermod -L baduser
```

## Question 17:

```
rahma@rahma-Lenovo:~$ sudo userdel -r baduser
```

## Question 18:

```
rahma@rahma-Lenovo:~$ tail -1 /etc/group
```

```
badgroup:x:30001:
```

```
rahma@rahma-Lenovo:~$ sudo groupdel badgroup
```

```
rahma@rahma-Lenovo:~$ tail -1 /etc/group
```

```
pgroup:x:30000:islam
```

## Question 19:

```
rahma@rahma-Lenovo:~$ df -h
```

or

```
rahma@rahma-Lenovo:~$ df -ha
```

 to show all files including pseudo, duplicate, inaccessible file systems

the physical hard drive are listed as /dev/sda so the one that has the most free disk space is /home with 20G available space

Filesystem	Size	Used	Avail	Use%	Mounted on
udev	3.9G	0	3.9G	0%	/dev
tmpfs	786M	1.9M	785M	1%	/run
/dev/sda11	22G	8.0G	13G	39%	/
tmpfs	3.9G	27M	3.9G	1%	/dev/shm
tmpfs	5.0M	4.0K	5.0M	1%	/run/lock
tmpfs	3.9G	0	3.9G	0%	/sys/fs/cgroup
/dev/loop1	56M	56M	0	100%	/snap/core18/2128
/dev/loop4	33M	33M	0	100%	/snap/snapd/12704
/dev/loop3	219M	219M	0	100%	/snap/gnome-3-34-1804/72
/dev/loop5	66M	66M	0	100%	/snap/gtk-common-themes/1515
/dev/loop0	128K	128K	0	100%	/snap/bare/5
/dev/loop2	56M	56M	0	100%	/snap/core18/2246
/dev/loop7	33M	33M	0	100%	/snap/snapd/13640
/dev/loop6	66M	66M	0	100%	/snap/gtk-common-themes/1519
/dev/loop8	51M	51M	0	100%	/snap/snap-store/547
/dev/sda8	3.7G	156M	3.4G	5%	/boot
/dev/sda10	22G	1.1G	20G	6%	/home
/dev/sda1	256M	43M	214M	17%	/boot/efi
tmpfs	786M	68K	786M	1%	/run/user/1000
/dev/sdb1	30G	2.9G	27G	10%	/media/rahma/UBUNTU 20_0

### Question 20:

**rahma@rahma-Lenovo:~\$** du -h / |sort

sort to get from lowest to highest and take the last one

99K /snap/gtk-common-themes/1519/share/icons/elementary-xfce/emblems

### Question 21:

**rahma@rahma-Lenovo:~\$** du -h /home |sort -r

-r reverse sort to get from highest to lowest and take the last one

100K /home/rahma/.config/libreoffice/4/user/config

### Question 22:

**I tried just typing nautilus an it just opens my files**

**rahma@rahma-Lenovo:~\$** nautilus

### Question 23:

**rahma@rahma-Lenovo:~\$** mkdir myteam

**rahma@rahma-Lenovo:~\$** ls -ld myteam

drwxrwxr-x 2 rahma rahma 4096 Nov 4 13:34 myteam

### Question 24:

**What I understood from the question is to change all permissions of the file and give only read permission for the file**

**rahma@rahma-Lenovo:~\$** chmod 400 myteam

**rahma@rahma-Lenovo:~\$** ls -ld myteam

dr----- 2 rahma rahma 4096 Nov 4 13:34 myteam

**if the question was intended to only change the user**

**permission and leave the group and others permission as it is**

**rahma@rahma-Lenovo:~\$** chmod u=r myteam

## Question 25:

```
rahma@rahma-Lenovo:~$ su - islam
```

```
Password:
```

```
$
```

## Question 26:

```
$ cd /home/rahma/myteam
```

```
-sh: 1: cd: can't cd to /home/rahma/myteam
```

I can't access the folder as islam doesn't have permission since in question 24 I changed the permissions of the folder to be ( dr-----)

## Question 27:Using the command Line

## Question 28:

```
rahma@rahma-Lenovo:~/docs$ chmod u=rw,g=wx,o=x mycv
```

```
rahma@rahma-Lenovo:~/docs$ ls -l mycv
```

```
-rw--wx--x 1 rahma rahma 183 Nov  3 14:52 mycv
```

```
rahma@rahma-Lenovo:~/docs$ chmod 631 mycv
```

```
rahma@rahma-Lenovo:~/docs$ ls -l mycv
```

```
-rw--wx--x 1 rahma rahma 183 Nov  3 14:52 mycv
```

## Question29.

```
rahma@rahma-Lenovo:~$ umask -S
```

```
u=rwx,g=rwx,o=rx
```

```
rahma@rahma-Lenovo:~$ umask 146
```

```
rahma@rahma-Lenovo:~$ umask -S
```

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

### Question30.

directory	u=rwx, g=rwx, o=rx	002
file	u=rw, g=rw ,o=r	113

```
rahma@rahma-Lenovo:~$ touch file
rahma@rahma-Lenovo:~$ ls -l file
-rw-rw-r-- 1 rahma rahma 0 Nov  4 15:46 file
rahma@rahma-Lenovo:~$ mkdir dir1
rahma@rahma-Lenovo:~$ ls -ld dir1
drwxrwxr-x 2 rahma rahma 4096 Nov  4 15:47 dir1
```

### Question31.

```
rahma@rahma-Lenovo:~$ umask 777
rahma@rahma-Lenovo:~$ umask -S
u=,g=,o=
rahma@rahma-Lenovo:~$ mkdir dir5
rahma@rahma-Lenovo:~$ ls -ld dir5
d----- 2 rahma rahma 4096 Nov  4 15:50 dir5
rahma@rahma-Lenovo:~$ touch file10
rahma@rahma-Lenovo:~$ ls -l file10
----- 1 rahma rahma 0 Nov  4 15:50 file10
```

**Question 32:** Copy a file from another user to your home directory. Note the permissions allowed to you before and after. Specify why?

#### 1- create file with islam as owner

```
$ touch islamfile
$ ls -l
total 0
-rw-rw-r-- 1 islam islam 0 Nov  4 14:46 islamfile
```

#### 2- switch back to rahma and copyfile

```
rahma@rahma-Lenovo:/home/islam$ cp islamfile /home/rahma
rahma@rahma-Lenovo:/home/islam$ cd
rahma@rahma-Lenovo:~$ ls
Desktop Documents islamfile myteam  Pictures snap  Videos
docs  Downloads Music  oldpasswd Public  Templates
rahma@rahma-Lenovo:~$ ls -l islamfile
-rw-rw-r-- 1 rahma rahma 0 Nov  4 14:51 islamfile
```

### 3- permissions

**before:** I can copy as I have the others permission which is read only (r--)

**after :** I have owner permission which is read and write (rw-)

#### Question 41:

```
rahma@rahma-Lenovo:~$ touch newfile
```

```
rahma@rahma-Lenovo:~$ chmod 444 newfile
```

```
rahma@rahma-Lenovo:~$ ls -l newfile
```

```
-r--r--r-- 1 rahma rahma 0 Nov  4 14:58 newfile
```

**to edit try which gives error as I don't have write permission**

```
rahma@rahma-Lenovo:~$ vi newfile
```

```
E45: 'readonly' option is set (add ! to override)
```

**to delete the file use rm we don't need permissions**

```
rahma@rahma-Lenovo:~$ rm newfile
```

```
rm: remove write-protected regular empty file 'newfile'? y
```

```
rahma@rahma-Lenovo:~$ ls
```

```
Desktop Documents islamfile myteam  Pictures snap  Videos
```

```
docs  Downloads Music  oldpasswd Public  Templates
```