## Lab<sub>1</sub>

#### Q2. What is the difference between cat and more command?

- cat: Show the contents of a file at once.
- **more**: Show the contents of a file one screen at a time, then waits for you to press the spacebar to see more.

#### Q3. What is the difference between rm and rmdir using man?

- rm: Removes files or directories.
- rmdir: Removes empty directories only

#### Q4. Create the hierarchy under your home directory:

```
mohamed@dell: ~/docs
                                                              Q
mohamed@dell:~$ mkdir dir1 docs
mohamed@dell:~$ ls ~
mohamed@dell:~$ cd dir1
mohamed@dell:~/dir1$ mkdir dir11 dir12
mohamed@dell:~/dir1$ ls
mohamed@dell:~/dir1$ cd dir11
mohamed@dell:~/dir1/dir11$ touch file1
mohamed@dell:~/dir1/dir11$ ls
file1
mohamed@dell:~/dir1/dir11$ cd ~
mohamed@dell:~$ cd docs/
mohamed@dell:~/docs$ touch mycv
mohamed@dell:~/docs$ ls
mohamed@dell:~/docs$
```

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

There is nothing happened because I used (rm -r dir1/dir11) instead of (rmdir dir1/dir11), which deleted empty directories only.

```
mohamed@dell:~$ rm -r dir1/dir11
mohamed@dell:~$ ls
Desktop docs Downloads Pictures snap Videos
dir1 Documents Music Public Templates
```

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

The hierarchy became has one branch (docs > mycv)

```
mohamed@dell:~/docs

mohamed@dell:~$ rmdir -p dir1/dir12

mohamed@dell:~$ ls

Desktop Documents Music Public Templates

docs Downloads Pictures snap Videos

mohamed@dell:~$ cd docs

mohamed@dell:~/docs$ ls

mycv

mohamed@dell:~/docs$
```

c. The output of the command pwd was /home/user. Write the absolute and relative path for the file mycv

The absolute path > /home/dell/docs/mycv
The relative path > docs/mycv

Q5. Copy the /etc/passwd file to your home directory making its name is mypasswd

```
mohamed@dell:~ Q = - □ ×

mohamed@dell:~$ cp /etc/passwd ~/mypasswd

mohamed@dell:~$ ls

Desktop Documents Music Pictures snap Videos

docs Downloads mypasswd Public Templates

mohamed@dell:~$
```

#### Q6. Rename this new file to be oldpasswd.

```
mohamed@dell:~$ ls

Desktop Documents Music Pictures snap Videos

docs Downloads mypasswd Public Templates

mohamed@dell:~$ mv mypasswd oldpasswd

mohamed@dell:~$ ls

Desktop Documents Music Pictures snap Videos

docs Downloads oldpasswd Public Templates

mohamed@dell:~$
```

### Q7. You are in /usr/bin, list four ways to go to your home directory

- 1) use this command > cd ~
- 2) use this command > cd
- 3) use this command >cd \$HOME
- 4) use this command >cd /home/mohamed [user\_name]

## Q9. Display the first 4 lines of /etc/passwd

```
mohamed@dell:~
mohamed@dell:~
mohamed@dell:~
head -4 /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
mohamed@dell:~$
```

# Q10. Display the last 7 lines of /etc/passwd

```
mohamed@dell:~$ tail -7 /etc/passwd
polkitd:x:987:987:User for polkitd:/:/usr/sbin/nologin
rtkit:x:117:119:RealtimeKit,,,:/proc:/usr/sbin/nologin
colord:x:118:120:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
gnome-initial-setup:x:119:65534::/run/gnome-initial-setup/:/bin/false
gdm:x:120:121:Gnome Display Manager:/var/lib/gdm3:/bin/false
nm-openvpn:x:121:122:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
mohamed:x:1000:1000:mohamed:/home/mohamed:/bin/bash
nohamed@dell:-$
```