

# Linux lab day 3

Using vi write your CV in the file mycv. Your CV should include your name, age, school, college, experience,...

[illegible]

2. Open mycv file using vi command then:  
( Without using arrows state how to)

 $\Rightarrow$ 

```

+
abougabal@AbouGabal:~$ ls
Desktop  Documents  file9      Music      Pictures
docs     Downloads  filevi     oldpasswd  Public
abougabal@AbouGabal:~$ vi filevi
abougabal@AbouGabal:~$

```

4. Move the cursor up one line at time.

As for the 2 questions, we navigate using h(left) , k(up), j(down), l (left)

## 5. Search for word age

[illegible]

as for searching for 'age' , you enter the last line mode and you type the following : `:/age` and press enter"

6. Step to line 5 (assuming that you are in line 1 and file is more than 5 lines).

- While you are on line 1 , enter the command mode by esc and then typing 5G

7. Delete the line you are on and line 5.

press 'd' 2 times.

8. How to step to the end of line and change to writing mode in one-step.

Use the dollar sign and then press 'a'.

22.Launch nautilus

23.Create a folder called myteam

=> type in the terminal 'nautilus' and then type in the dir you want to open and then it will open, then create myteam dir using GUI.

```
+ abougabal@AbouGabal: ~/Desktop/myteam
abougabal@AbouGabal:~$ ls
Desktop  Documents  file9  Music  Pictures  PycharmProjects  Templates
docs     Downloads  filevi  oldpasswd  Public  snap  Videos
abougabal@AbouGabal:~$ vi filevi
abougabal@AbouGabal:~$ ls
Desktop  Documents  file9  Music  Pictures  PycharmProjects  Templates
docs     Downloads  filevi  oldpasswd  Public  snap  Videos
abougabal@AbouGabal:~$ nautilus Downloads
** Message: 12:58:20.430: Connecting to org.freedesktop.Tracker3.Miner.Files
abougabal@AbouGabal:~$ vi filevi
abougabal@AbouGabal:~$ vi filevi
abougabal@AbouGabal:~$ ls
Desktop  Documents  file9  Music  Pictures  PycharmProjects  Templates
docs     Downloads  filevi  oldpasswd  Public  snap  Videos
abougabal@AbouGabal:~$ nautilus Desktop/
** Message: 13:41:35.797: Connecting to org.freedesktop.Tracker3.Miner.Files
abougabal@AbouGabal:~$ ls Desktop/
ahmed  myteam
abougabal@AbouGabal:~$ cd Desktop/myteam/
abougabal@AbouGabal:~/Desktop/myteam$ ls
abougabal@AbouGabal:~/Desktop/myteam$
```

24.Change its permissions to read only for the owner.

```
abougabal@AbouGabal: ~/Desktop
abougabal@AbouGabal:~$ vi filevi
abougabal@AbouGabal:~$ ls
Desktop  Documents  file9  Music  Pictures  PycharmProjects  Templates
docs     Downloads  filevi  oldpasswd  Public  snap  Videos
abougabal@AbouGabal:~$ nautilus Desktop/
** Message: 13:41:35.797: Connecting to org.freedesktop.Tracker3.Miner.Files
abougabal@AbouGabal:~$ ls Desktop/
ahmed  myteam
abougabal@AbouGabal:~$ cd Desktop/myteam/
abougabal@AbouGabal:~/Desktop/myteam$ ls
total 0
abougabal@AbouGabal:~/Desktop/myteam$ ls -ld -l
drwxrwxr-x 2 abougabal abougabal 4096 Jun  9 13:41 .
abougabal@AbouGabal:~/Desktop/myteam$ chmod 477 myteam
chmod: cannot access 'myteam': No such file or directory
abougabal@AbouGabal:~/Desktop/myteam$ cd ../
abougabal@AbouGabal:~/Desktop$ ls
ahmed  myteam
abougabal@AbouGabal:~/Desktop$ chmod 477 myteam
abougabal@AbouGabal:~/Desktop$ |
```

25.Log out and log in by another user

```
abougabal@AbouGabal:~$ whoami
abougabal
abougabal@AbouGabal:~$ su - mohamed
Password:
$ whoami
mohamed
$ ls
$ |
```

## 26. Try to access the folder

```
abougabal@AbouGabal:~$ su - mohamed
Password:
$ pwd
/home/mohamed
$ ls
$ cd ../
$ ls
abougabal  mohamed
$ cd abo
-sh: 5: cd: can't cd to abo
$ |
```

## 28. Change the permissions of mycv 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 )

```
abougabal@AbouGabal:~$ chmod 631 mycv
```

```
abougabal@AbouGabal:~$ chmod u+rw,g+wx,o+x mycv
abougabal@AbouGabal:~$ ls -l mycv
-rwxrwxrwx 1 abougabal abougabal 0 Jun  9 14:08 mycv
abougabal@AbouGabal:~$
```

## 29. Change your default permissions to be as above.

=> Using umask 002 , then touch mycv , then ls -l

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

```
abougabal@AbouGabal:~$ touch newfile
abougabal@AbouGabal:~$ ls -l newfile
-rw-rw-r-- 1 abougabal abougabal 0 Jun  9 14:45 newfi
abougabal@AbouGabal:~$ |
```

As for the directory

```
abougabal@AbouGabal:~$ mkdir testing
abougabal@AbouGabal:~$ ls -l testing/
total 0
abougabal@AbouGabal:~$ ls -l -d testing/
drwxrwxr-x 2 abougabal abougabal 4096 Jun  9 14:47 tes
abougabal@AbouGabal:~$
```

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

=> Using umask 002

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

This is the default permissions -rw-r--r-- for the file he created, so when I take a copy of this file , I will be granted read only permit even if I am at the same group of the user I copied from.

33.What are the minimum permission needed for :

34.Copy a directory (source and target)

source : read and execute

destination : write and execute

35.Copy a file (source and target)

=> source file : read

destination dir : write and execute

36.Delete a file

=> read

37.Change to a directory

execute

38.List a directory content

=> read only

### 39.View a file content

=> read only

### 40.Modify a file content

=> write only

41.Create a file with permission 444. Try to edit in it and to remove it? Note what happened.  
(notice write protection in Linux)

```
abougabal@AbouGabal:~$ chmod 444 test
abougabal@AbouGabal:~$ cat "hello, world" >> test
-bash: test: Permission denied
abougabal@AbouGabal:~$ rm test
rm: remove write-protected regular empty file 'test'?
```

42. What is the difference between the “x” permission for a file and for a directory

Execute	You can execute the file if it is an executable. You can execute a shell script if you also have read and execute permissions.	You can use the cd command to access the directory. If you also have read access, you can run the ls -l command on the directory to list contents.
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