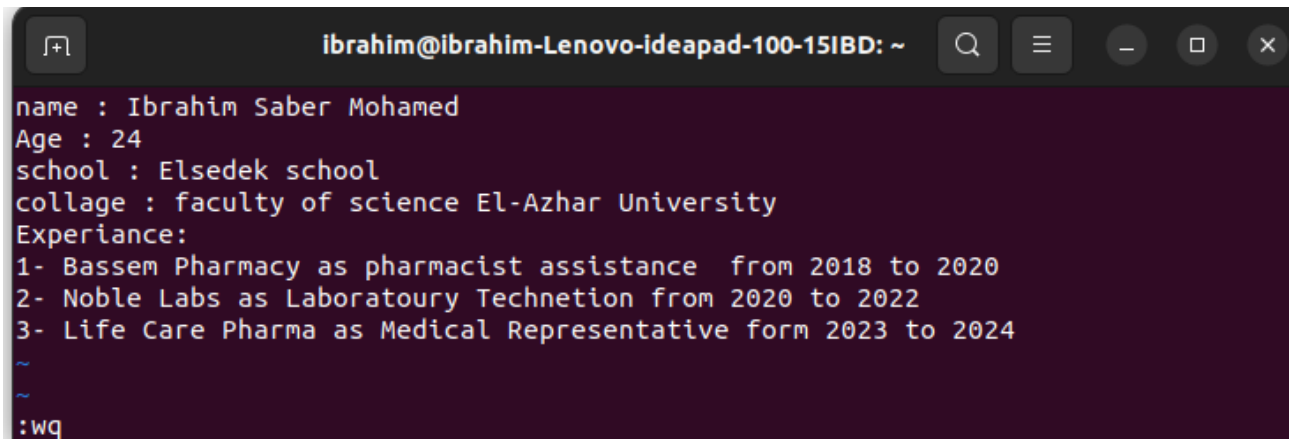


1. Using vi write your CV in the file mycv. Your CV should include your name, age, school, college, experience,...

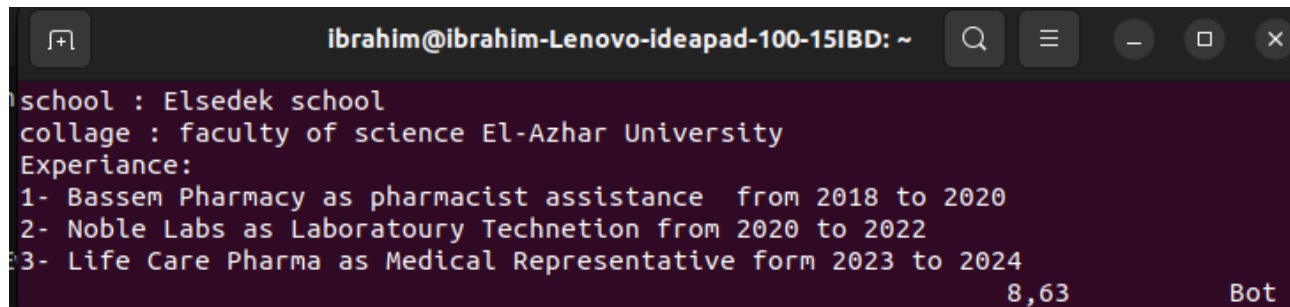
```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ vi my_cv
```



```
name : Ibrahim Saber Mohamed
Age : 24
school : Elsedek school
collage : faculty of science El-Azhar University
Experience:
1- Bassem Pharmacy as pharmacist assistance  from 2018 to 2020
2- Noble Labs as Laboratoury Technetion from 2020 to 2022
3- Life Care Pharma as Medical Representative form 2023 to 2024
~
~
:wq
```

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

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ vi my_cv
```



```
school : Elsedek school
collage : faculty of science El-Azhar University
Experience:
1- Bassem Pharmacy as pharmacist assistance  from 2018 to 2020
2- Noble Labs as Laboratoury Technetion from 2020 to 2022
3- Life Care Pharma as Medical Representative form 2023 to 2024
8,63 Bot
```

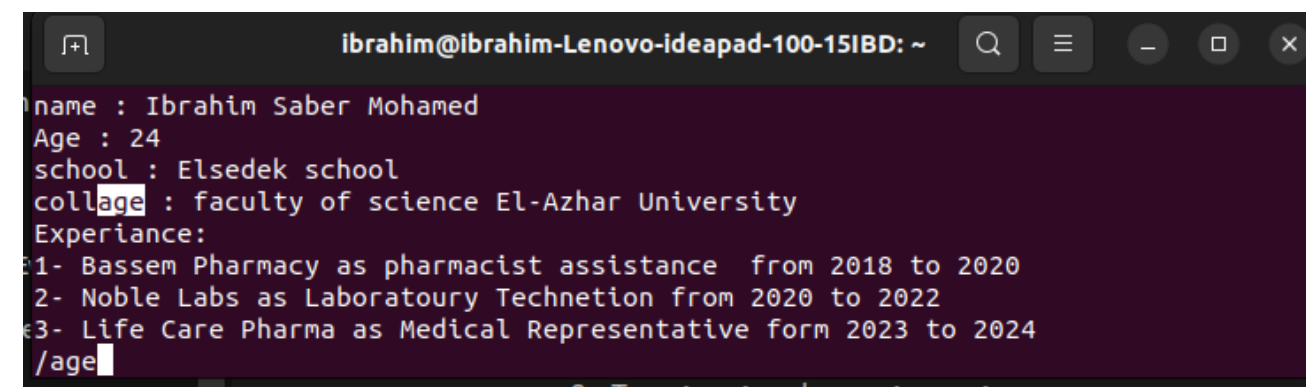
3. Move the cursor down one line at time.

press j.

4. Move the cursor up one line at time.

press k.

5. Search for word age



```
name : Ibrahim Saber Mohamed
Age : 24
school : Elsedek school
collage : faculty of science El-Azhar University
Experience:
1- Bassem Pharmacy as pharmacist assistance  from 2018 to 2020
2- Noble Labs as Laboratoury Technetion from 2020 to 2022
3- Life Care Pharma as Medical Representative form 2023 to 2024
/age
```

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

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD: ~  
name : Ibrahim Saber Mohamed  
Age : 24  
school : Elsedek school  
collage : faculty of science El-Azhar University  
Experience:  
1- Bassem Pharmacy as pharmacist assistance from 2018 to 2020  
2- Noble Labs as Laboratoury Technetion from 2020 to 2022  
3- Life Care Pharma as Medical Representative form 2023 to 2024  
:5 5,1 All
```

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

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD: ~  
name : Ibrahim Saber Mohamed  
Age : 24  
school : Elsedek school  
collage : faculty of science El-Azhar University  
Experience:  
1- Bassem Pharmacy as pharmacist assistance from 2018 to 2020  
2- Noble Labs as Laboratoury Technetion from 2020 to 2022  
3- Life Care Pharma as Medical Representative form 2023 to 2024  
:5d
```

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD: ~  
name : Ibrahim Saber Mohamed  
Age : 24  
school : Elsedek school  
collage : faculty of science El-Azhar University  
1- Bassem Pharmacy as pharmacist assistance from 2018 to 2020  
2- Noble Labs as Laboratoury Technetion from 2020 to 2022  
3- Life Care Pharma as Medical Representative form 2023 to 2024  
5,1 All
```

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

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD: ~  
name : Ibrahim Saber Mohamed  
Age : 24  
school : Elsedek school  
collage : faculty of science El-Azhar University  
1- Bassem Pharmacy as pharmacist assistance  from 2018 to 2020  
2- Noble Labs as Laboratoury Technetion from 2020 to 2022  
3- Life Care Pharma as Medical Representative form 2023 to 2024  
~  
5,1 All
```

press A .

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD: ~  
name : Ibrahim Saber Mohamed  
Age : 24  
school : Elsedek school  
collage : faculty of science El-Azhar University  
1- Bassem Pharmacy as pharmacist assistance  from 2018 to 2020  
2- Noble Labs as Laboratoury Technetion from 2020 to 2022  
3- Life Care Pharma as Medical Representative form 2023 to 2024  
~  
-- INSERT --  
5,63 All
```

22.Launch nautilus

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ nautilus
```

23.Create a folder called myteam

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ mkdir myteam
```

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

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ ls -l
total 60
-rw-rw-r-- 1 ibrahim ibrahim 91 2 10:05 9 يون nd_file
drwxr-xr-x 2 ibrahim ibrahim 4096 09:27 9 يون Desktop
drwxrwxr-x 3 ibrahim ibrahim 4096 14:56 6 يون dir1
drwxrwxr-x 2 ibrahim ibrahim 4096 14:11 6 يون docs
drwxr-xr-x 2 ibrahim ibrahim 4096 20:07 8 يون Documents
drwxr-xr-x 2 ibrahim ibrahim 4096 09:57 9 يون Downloads
drwxr-xr-x 2 ibrahim ibrahim 4096 16:09 3 يون Music
-rw-rw-r-- 1 ibrahim ibrahim 297 13:20 9 يون my_cv
drwxrwxr-x 2 ibrahim ibrahim 4096 13:30 9 يون myteam
```

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ chmod 400 myteam
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ ls -l -h
total 60K
-rw-rw-r-- 1 ibrahim ibrahim 91 2 10:05 9 يون nd_file
drwxr-xr-x 2 ibrahim ibrahim 4.0K 09:27 9 يون Desktop
drwxrwxr-x 3 ibrahim ibrahim 4.0K 14:56 6 يون dir1
drwxrwxr-x 2 ibrahim ibrahim 4.0K 14:11 6 يون docs
drwxr-xr-x 2 ibrahim ibrahim 4.0K 20:07 8 يون Documents
drwxr-xr-x 2 ibrahim ibrahim 4.0K 09:57 9 يون Downloads
drwxr-xr-x 2 ibrahim ibrahim 4.0K 16:09 3 يون Music
-rw-rw-r-- 1 ibrahim ibrahim 297 13:20 9 يون my_cv
dr----- 2 ibrahim ibrahim 4.0K 13:30 9 يون myteam
-rw-r--r-- 1 ibrahim ibrahim 2.9K 14:25 8 يون oldpasswd
```

25.Log out and log in by another user

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD: ~
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ sudo useradd islam
[sudo] password for ibrahim:
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ passwd islam
passwd: You may not view or modify password information for islam.
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ sudo passwd islam
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ su islam
Password:
$ ^Z^C
$ id
uid=1001(islam) gid=1001(islam) groups=1001(islam)
```

26. Try to access the folder

```
$ exit
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ cd myteam
bash: cd: myteam: Permission denied
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ chmod 700 myteam
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ cd myteam
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~/myteam$
```

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)

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ chmod 631 my_cv
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ ls -l
total 60
-rw-rw-r-- 1 ibrahim ibrahim 91 2 10:05 9 يون nd_file
drwxr-xr-x 2 ibrahim ibrahim 4096 09:27 9 يون Desktop
drwxrwxr-x 3 ibrahim ibrahim 4096 14:56 6 يون dir1
drwxrwxr-x 2 ibrahim ibrahim 4096 14:11 6 يون docs
drwxr-xr-x 2 ibrahim ibrahim 4096 20:07 8 يون Documents
drwxr-xr-x 2 ibrahim ibrahim 4096 09:57 9 يون Downloads
drwxr-xr-x 2 ibrahim ibrahim 4096 16:09 3 يون Music
-rw--wx--x 1 ibrahim ibrahim 297 13:20 9 يون my_cv
drwx----- 2 ibrahim ibrahim 4096 13:30 9 يون myteam
```

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ chmod u=rw,g=wx,o=x my_cv
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ ls -l
total 60
-rw-rw-r-- 1 ibrahim ibrahim 91 2 10:05 9 يون nd_file
drwxr-xr-x 2 ibrahim ibrahim 4096 09:27 9 يون Desktop
drwxrwxr-x 3 ibrahim ibrahim 4096 14:56 6 يون dir1
drwxrwxr-x 2 ibrahim ibrahim 4096 14:11 6 يون docs
drwxr-xr-x 2 ibrahim ibrahim 4096 20:07 8 يون Documents
drwxr-xr-x 2 ibrahim ibrahim 4096 09:57 9 يون Downloads
drwxr-xr-x 2 ibrahim ibrahim 4096 16:09 3 يون Music
-rw--wx--x 1 ibrahim ibrahim 297 13:20 9 يون my_cv
drwx----- 2 ibrahim ibrahim 4096 13:30 9 يون myteam
```

29. Change your default permissions to be as above.

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ umask 146
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ ls -l
total 60
-rw-rw-r-- 1 ibrahim ibrahim 91 2 10:05 9 يون nd_file
drwxr-xr-x 2 ibrahim ibrahim 4096 09:27 9 يون Desktop
drwxrwxr-x 3 ibrahim ibrahim 4096 14:56 6 يون dir1
drwxrwxr-x 2 ibrahim ibrahim 4096 14:11 6 يون docs
drwxr-xr-x 2 ibrahim ibrahim 4096 20:07 8 يون Documents
drwxr-xr-x 2 ibrahim ibrahim 4096 09:57 9 يون Downloads
drwxr-xr-x 2 ibrahim ibrahim 4096 16:09 3 يون Music
-rw--wx--x 1 ibrahim ibrahim 297 13:20 9 يون my_cv
drwx----- 2 ibrahim ibrahim 4096 13:30 9 يون myteam
```


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

The system default permission values are
777 (rwxrwxrwx) for folders and
666 (rw-rw-rw-) for files.

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

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ umask 777
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ mkdir new_dir
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ touch new_file
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ ls -l
total 64
-rw-rw-r-- 1 ibrahim ibrahim  91 2 10:05 9  يون nd_file
drwxr-xr-x 2 ibrahim ibrahim 4096 09:27 9  يون Desktop
drwxrwxr-x 3 ibrahim ibrahim 4096 14:56 6  يون dir1
drwxrwxr-x 2 ibrahim ibrahim 4096 14:11 6  يون docs
drwxr-xr-x 2 ibrahim ibrahim 4096 20:07 8  يون Documents
drwxr-xr-x 2 ibrahim ibrahim 4096 09:57 9  يون Downloads
drwxr-xr-x 2 ibrahim ibrahim 4096 16:09 3  يون Music
-rw--wx--x 1 ibrahim ibrahim  297 13:20 9  يون my_cv
drwx----- 2 ibrahim ibrahim 4096 13:30 9  يون myteam
d----- 2 ibrahim ibrahim 4096 14:19 9  يون new_dir
----- 1 ibrahim ibrahim    0 14:19 9  يون new_file
-rw-r--r-- 1 ibrahim ibrahim 2892 14:25 9  يون oldpasswd
```

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

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ su ali
Password:
$ cd home
sh: 1: cd: can't cd to home
$ cd /home/ali
$ pwd
/home/ali
$ touch ali_file
$ ls
ali_file
$ cp ali_file /home/ibrahim
cp: cannot stat '/home/ibrahim/ali_file': Permission denied
$
```

33.What are the minimum permission needed for :

34.Copy a directory (source and target)

Source: r and on the directory and its contents.

Target: w and x on the parent directory.

35.Copy a file (source and target)

Target: w on the target directory.

Source : r on file

36.Delete a file

w on the directory containing the file.

37.Change to a directory

x on the directory.

38.List a directory content

r on the directory.

39.View a file content

r on the file.

40.Modify a file content

w on the file.

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

(notice write protection in Linux)

```
/home/ibrahim
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ touch file444
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ chmod 444 file444
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ ls -l
total 64
-rw-rw-r-- 1 ibrahim ibrahim  91 2 10:05 9  2nd_file
drwxr-xr-x 2 ibrahim ibrahim 4096 09:27 9  2nd Desktop
drwxrwxr-x 3 ibrahim ibrahim 4096 14:56 6  2nd dir1
drwxrwxr-x 2 ibrahim ibrahim 4096 14:11 6  2nd docs
drwxr-xr-x 2 ibrahim ibrahim 4096 20:07 8  2nd Documents
drwxr-xr-x 2 ibrahim ibrahim 4096 09:57 9  2nd Downloads
-r--r--r-- 1 ibrahim ibrahim   0 14:52 9  2nd file444
drwxr-xr-x 2 ibrahim ibrahim 4096 16:09 3  2nd Music
```

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ vi file444
```

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD: ~
hi there
~
~
~
E45: 'readonly' option is set (add ! to override) 1,9 All
```

```
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ vi file444
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ echo "test" > file444
bash: file444: Permission denied
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ rm file444
rm: remove write-protected regular file 'file444'? y
ibrahim@ibrahim-Lenovo-ideapad-100-15IBD:~$ ls
2nd_file  docs      Music    new_dir  Pictures  Templates
Desktop   Documents my_cv    new_file Public    test
dir1      Downloads myteam   oldpasswd snap      Videos
```

