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

2. enmycv file using vi command and then: (W it

```
eslam@eslam-Latitude-E7450: ~

Name: Eslam Reda Mohamed
Age: 23 years
School: Atef El-sadat Secondary School
College: Computer and Artificial intelligence, Helwan University
experience: Coding Instructor in ischool, Sales engineer in Tech Shop
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:x
```

hout using arrows state how to)

3. Move the cursor down one line at time.
   Press j

4. Move the cursor up one line at time.
   Press k

---

eslam@eslam-Latitude-E7450: ~

```
Name: Eslam Reda Mohamed
Age: 23 years
School: Atef El-sadat Secondary School
College: Computer and Artificial intelligence, Helwan University
experience: Coding Instructor in ischool, Sales engineer in Tech Shop
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:/Age
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5. ea rc h for wo rd ag e

te p to lin e 5 (as su mi ng th at yo u ar e in lin e 1 an d

file is more than 5 lines).

```
eslam@eslam-Latitude-E7450: ~

Name: Eslam Reda Mohamed

Age: 23years

School: Atef El-sadat Secondary School
College: Computer and Artificial intelligence, Helwan University
experience: Coding Instructor in ischool, Sales engineer in Tech Shop
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:5
```

elete the line you are on and line 5.

```
Name: Eslam Reda Mohamed

Age: 23years

School: Atef El-sadat Secondary School
College: Computer and Artificial intelligence, Helwan University
experience: Coding Instructor in ischool, Sales engineer in Tech Shop
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:1,5d
```

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

Press A

reate a user account with the following attribute

- username: islam

ubuntu

- Fullname: Islam Askar
- Password: islam

10. Create a user account with the following attribute
    - Username: baduser
    - Full name: Bad User
    - Password: baduser

11. Create a supplementary (Secondary) group called pgroup with   group ID of 3000012. Create a supplementary group called badgroup

12. Create a supplementary group called badgroup.

13. Add islam user to the pgroup group as a   supplementary group

14. Modify the password of islam's account to password

15. Modify islam's account so the password expires after 30 days

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

ubuntu
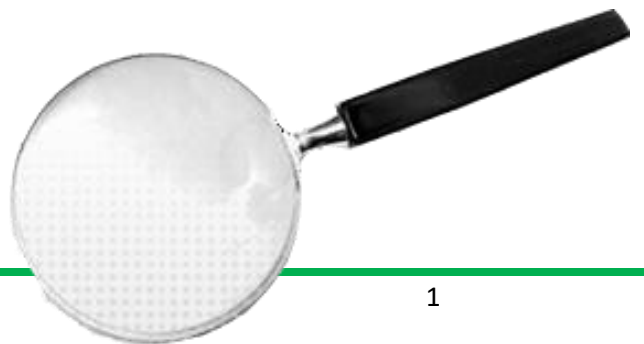
17. Delete bad user account

18. Delete the supplementary group called badgroup.

19. Which file system has the most free disk space on your machine

20. Which top level directory n / uses the most space on your machine

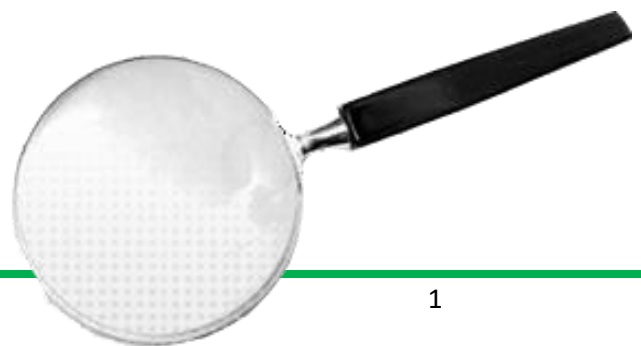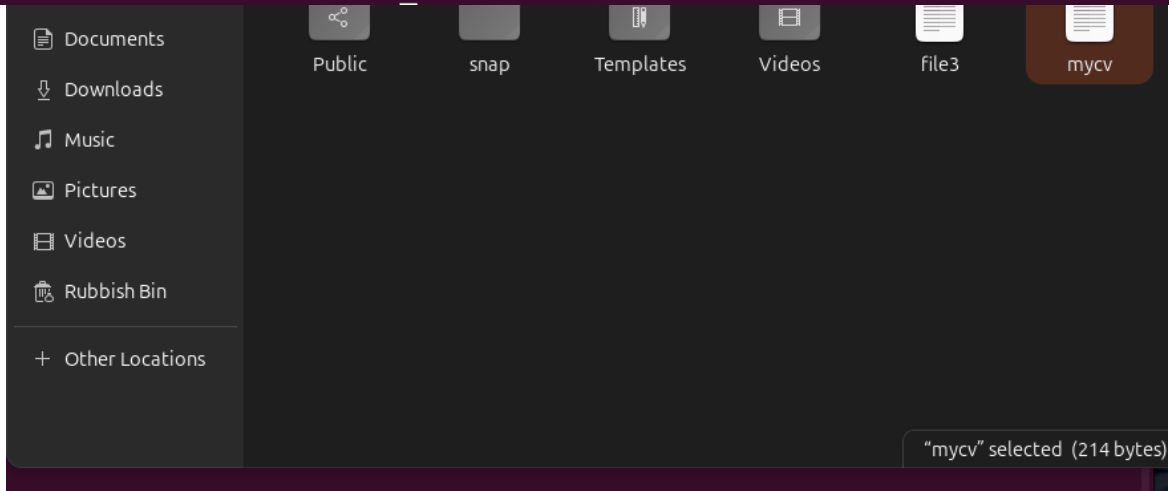21. Which top level directory in /home uses the least space on your machine.

22. Launch nautilus

ubuntu
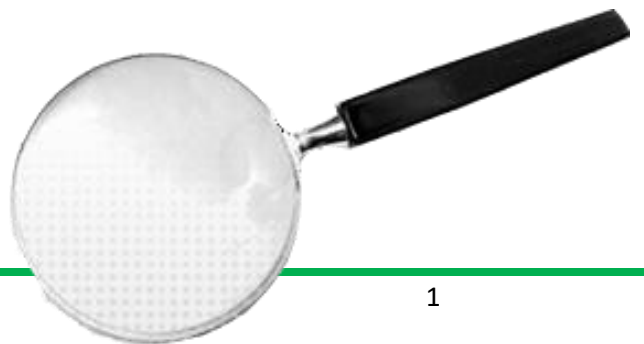
eslam@eslam-Latitude-E7450:~$ nautilus
** Message: 13:34:50.228: Connecting to org.freedesktop.Tracker3.Miner.Files
eslam@eslam-Latitude-E7450:~$ □

23. Create a folder called myteam

24. Change its permissions to read only for the owner

Files ≡	⌂ Home				

Recent

★ Starred

eslam@eslam-Latitude-E7450:~$ mkdir myteam
eslam@eslam-Latitude-E7450:~$ chmod 477 myteam

Documents

⬇ Downloads

♪ Music

🖼 Pictures

🖽 Videos

🗑 Rubbish Bin

＋ Other Locations

Public   snap   Templates   Videos   file3   mycv

"mycv" selected (214 bytes)

ubuntu

1

25. Log out and log in by another user

```
eslam@eslam-Latitude-E7450:~$ su islam
Password:
$ 
```

26. Try to access the folder

```
$ cd myteam
sh: 7: cd: can't cd to myteam
```

27. Using the command Line

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)

```
eslam@eslam-Latitude-E7450:~$ chmod 631 mycv
eslam@eslam-Latitude-E7450:~$ chmod u=rw,g=wx,o=x mycv
```

hange your default permissions to be as above.

```
eslam@eslam-Latitude-E7450:~$ umask u=x,g=r,o=rw
```

30. W

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

==File==>666 rw==

==dir==>777 rwx==

31. Change your default permissions to be no permission to everyone then

```
eslam@eslam-Latitude-E7450:~$ umask 777
```

32. create a directoryand a file to verify.

```
eslam@eslam-Latitude-E7450:~$ mkdir testdir
eslam@eslam-Latitude-E7450:~$ cd testdir
bash: cd: testdir: Permission denied
eslam@eslam-Latitude-E7450:~$ touch testfile
eslam@eslam-Latitude-E7450:~$ cat testfile
cat: testfile: Permission denied
```

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

```
$ cd /home/islam
$ touch islamfile
$ cp islamfile /home/eslam
cp: cannot stat '/home/eslam/islamfile': Permission denied
  n
```

at are the minimum permission needed for :

34. Copy a directory (source and target)

source==>rx   Target==>wx

35. Copy a file (source and target)

 source==>r   Target==>wx

36. Delete a file

 wx

37. Change to a directory

 w

38. List a directory content

r

39. View a file content

r

40. Modify a file content

w

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

```
eslam@eslam-Latitude-E7450:~$ chmod 444 lapfile

~
~

W10: Warning: Changing a readonly file
```

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t is the difference between the "x" permission for a file and for a directory

<mark>dir==>You can execute the file if it is an executable. You can execute a shell script if you also have read and execute permissions.</mark>

<mark>File==>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.</mark>

43. Copy the rm program to your home directory, naming it myrm, grant set-uid permission, what happens if one of the users starts your ~username/myrm to edit one of your own files?
44. What is the difference between the set-uid and set-gid?
45. Create a directory with sticky-bit and write permissions on, grant all the users to access the directory, will any user be able to create and delete files from the directory?
46. Create a directory with set-gid permission, what do you notice when you create a new file or a directory?

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