

1. Using vi write your CV in the file mycv. Your CV should include your name, age, school, college, experience,...
2. Open mycv file using vi command then: (Without using arrows state how to)
3. Move the cursor down one line at time.
4. Move the cursor up one line at time.
5. Search for word age
6. Step to line 5 (assuming that you are in line 1 and file is more than 5 lines).
7. Delete the line you are on and line 5.
8. How to step to the end of line and change to writing mode in one-step.
9. Create a user account with the following attribute
 - username: islam
 - Fullname: Islam Askar
 - Password: islam

```
eslam@eslam-Latitude-E7450:~$ sudo useradd -c "islam asker" -md /home/islam islam
eslam@eslam-Latitude-E7450:~$ sudo passwd islam
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
```

create
a user
account

with the following attribute

- Username: baduser
- Full name: Bad User
- Password: baduser

```
eslam@eslam-Latitude-E7450:~$ sudo useradd -c "Bad User" -md /home/baduser baduser
eslam@eslam-Latitude-E7450:~$ sudo passwd baduser
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
```

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

3000012.Create a supplementary group called badgroup

```
eslam@eslam-Latitude-E7450:~$ sudo groupadd -g 30000 pgroup
```

1

2.Create a supplementary group called badgroup.

```
eslam@eslam-Latitude-E7450:~$ sudo groupadd badgroup
```

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

```
eslam@eslam-Latitude-E7450:~$ sudo usermod -G pgroup islam
```

.Modify the password of islam's account to password

```
eslam@eslam-Latitude-E7450:~$ sudo passwd islam
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: password updated successfully
```

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dify islam's account so the password expires after 30 days

```
eslam@eslam-Latitude-E7450:~$ sudo chage -M 30 islam
```

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

```
eslam@eslam-Latitude-E7450:~$ sudo usermod -L baduser
```

17. Delete bad user account

```
eslam@eslam-Latitude-E7450:~$ sudo userdel baduser
```

delete the supplementary group called badgroup.

```
eslam@eslam-Latitude-E7450:~$ sudo groupdel badgroup
```

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

```
eslam@eslam-Latitude-E7450:~$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
tmpfs	1.6G	2.4M	1.6G	1%	/run
/dev/sda6	190G	21G	160G	12%	/
tmpfs	7.8G	95M	7.7G	2%	/dev/shm
tmpfs	5.0M	12K	5.0M	1%	/run/lock
efivarfs	128K	67K	57K	54%	/sys/firmware/efi/efivars
/dev/sda2	96M	31M	66M	33%	/boot/efi
tmpfs	1.6G	148K	1.6G	1%	/run/user/1000
/dev/sda4	185G	162G	24G	88%	/media/eslam/OS
/dev/sda5	98G	57G	42G	58%	/media/eslam/01D96FEFACE9A340

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

```
eslam@eslam-Latitude-E7450:/$ sudo du -sh /home
```

5.3G /home

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

```
eslam@eslam-Latitude-E7450:/$ sudo du -sh /root
```

104K /root

```
eslam@eslam-Latitude-E7450:/$
```

Launch nautilus

23. Create a folder called myteam



25. Log out and log in by another user

26. Try to access the folder
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)
29. Change your default permissions to be as above.
30. What is the maximum permission a file can have, by default when it is just created? And what is that for directory.
31. Change your default permissions to be no permission to everyone then create a directory and a file to verify.
32. Copy a file from another user to your home directory. Note the permissions allowed to you before and after. Specify why?
33. What are the minimum permissions needed for :
34. Copy a directory (source and target)
35. Copy a file (source and target)
36. Delete a file
37. Change to a directory
38. List a directory content
39. View a file content
40. Modify a file content
41. Create a file with permission 444. Try to edit it and to remove it? Note what happened. (notice write protection in Linux)
42. What is the difference between the "x" permission for a file and for a directory
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?