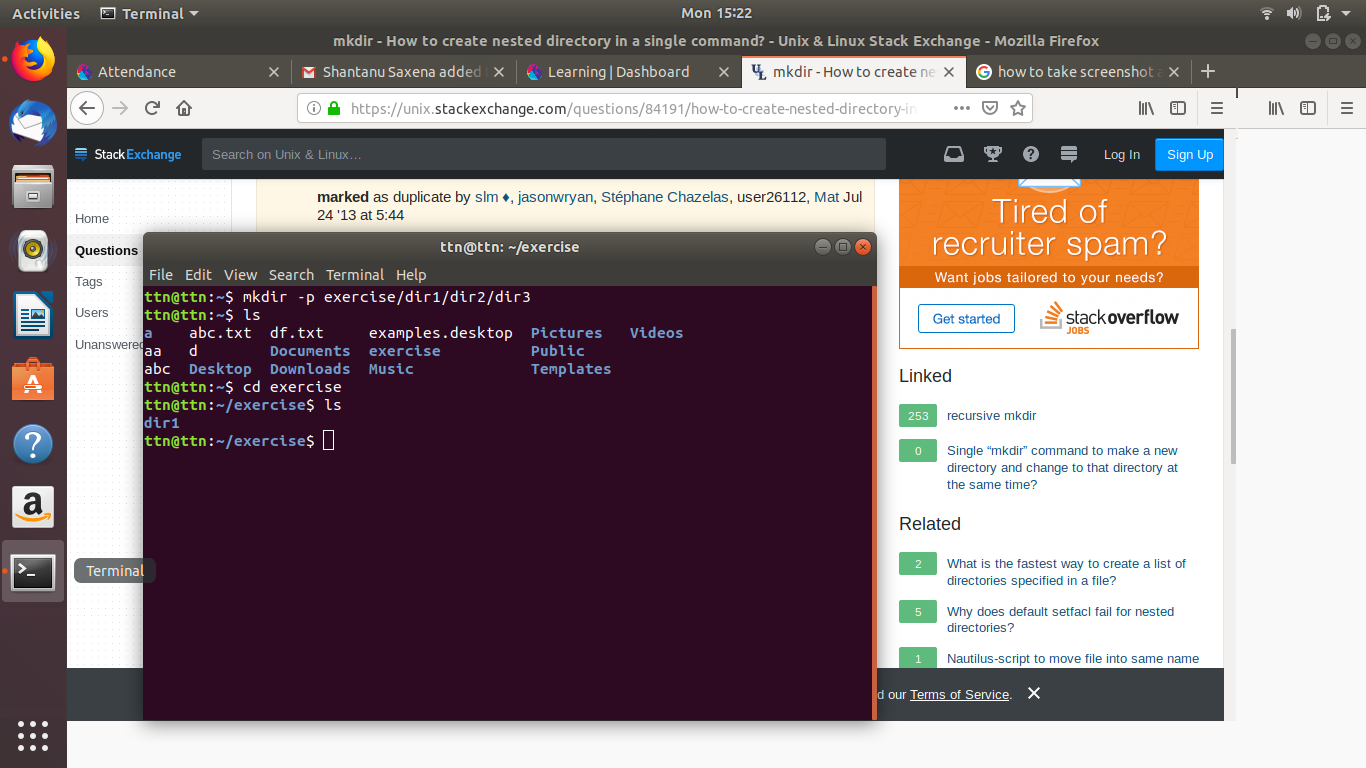
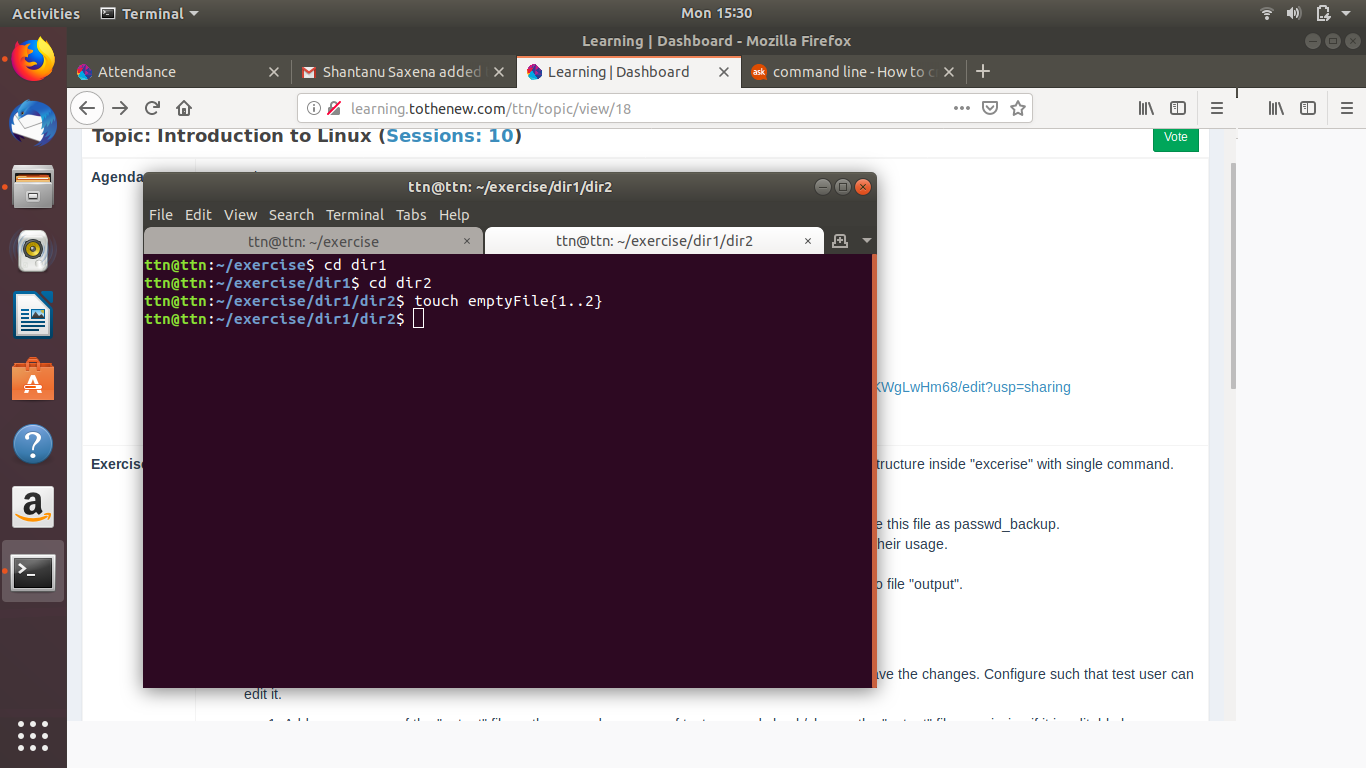
**INTRODUCTION TO LINUX**

1.Create a directory "exercise" inside your home directory and create nested(dir1/dir2/dir3) directory structure inside "excerise" with single command.

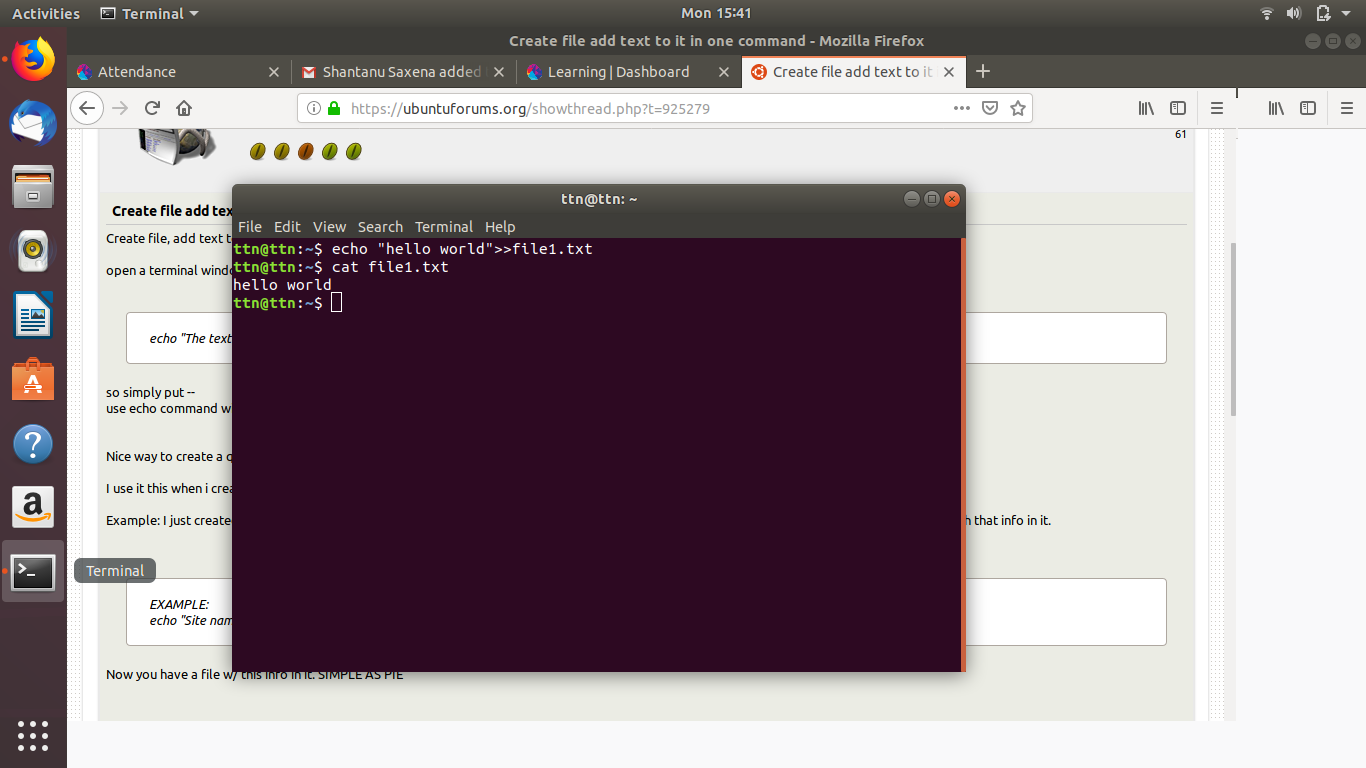


Mkdir -p exercise /dir1/dir2/dir3

2.Create two empty files inside dir2 directory: emptyFile1,emptyFile2 in single command



3.Create one file file1.txt containing text "hello world" and save it.

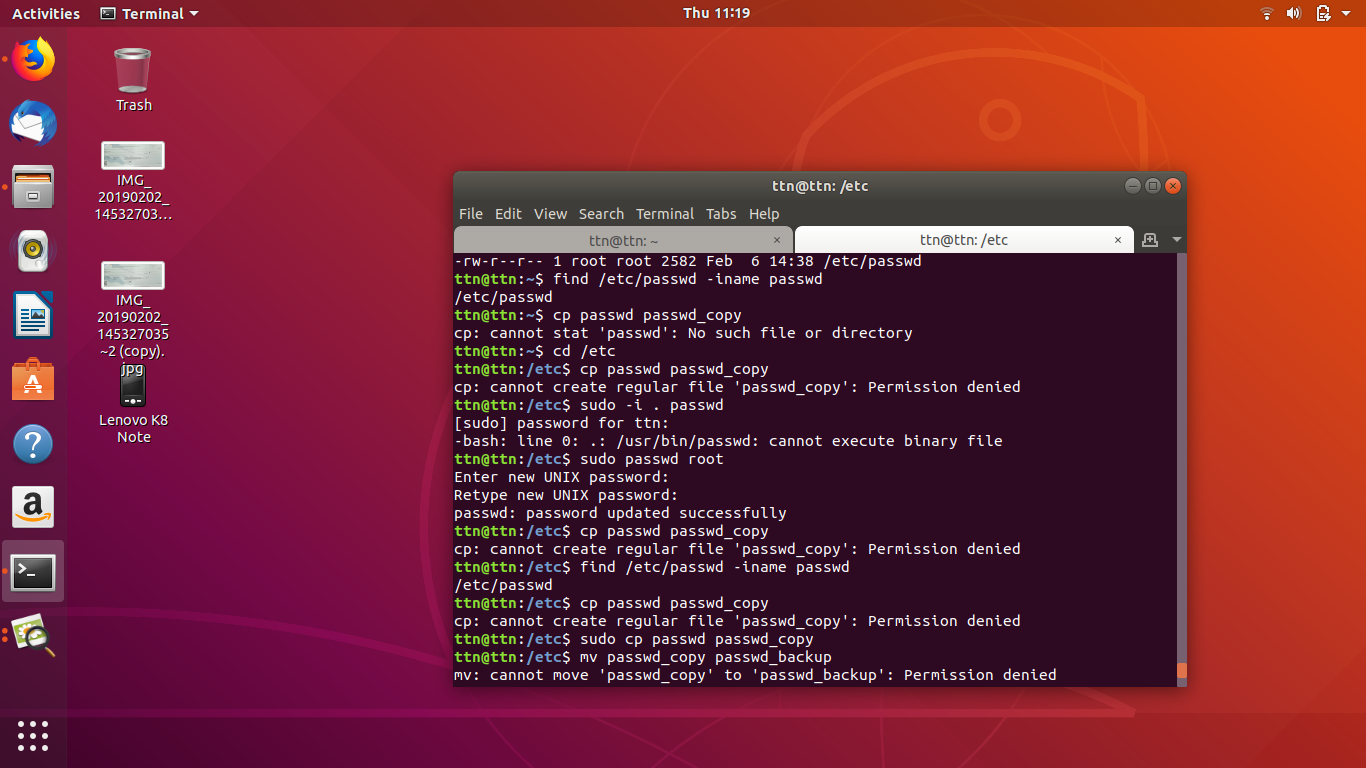


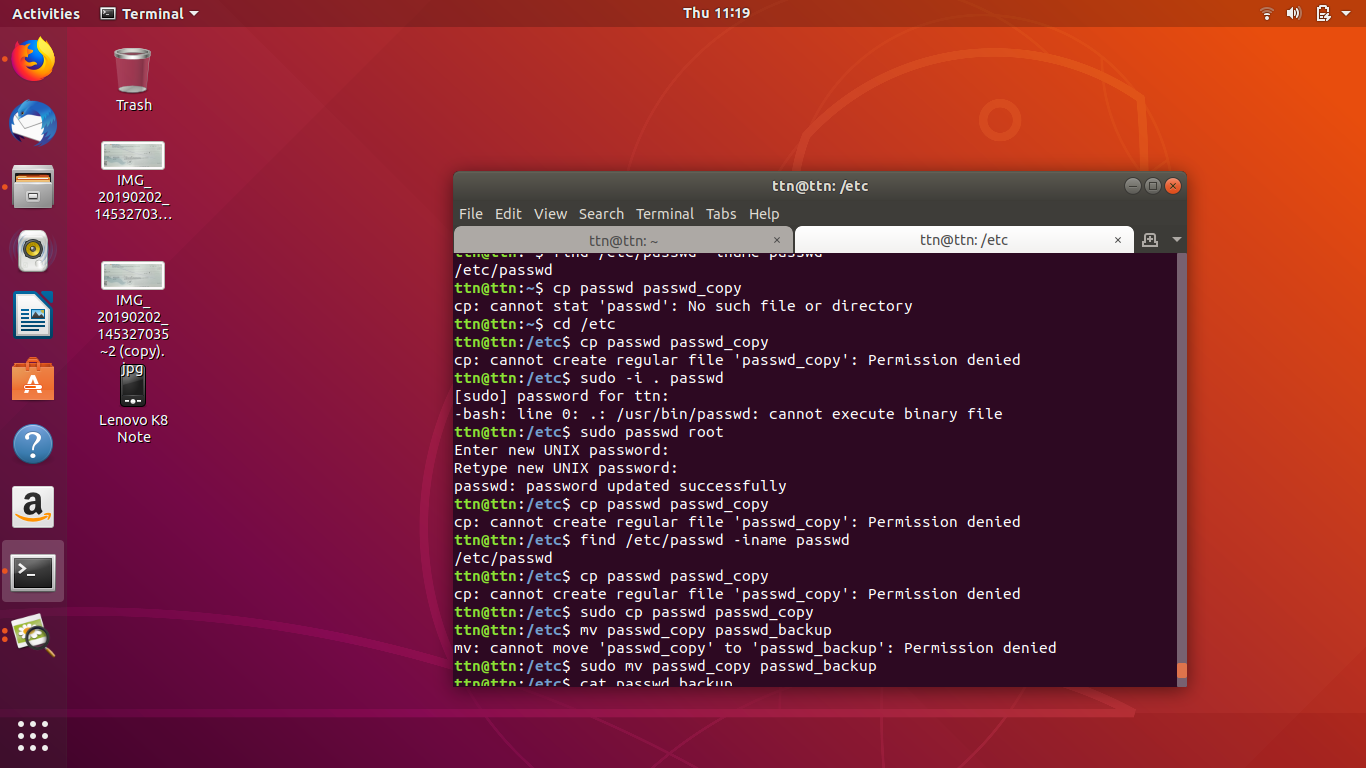
4.Find a "passwd" file using find command inside /etc. copy this files as passwd\_copy and then rename this file as passwd\_backup.

Ans- find /etc/passwd -iname passwd

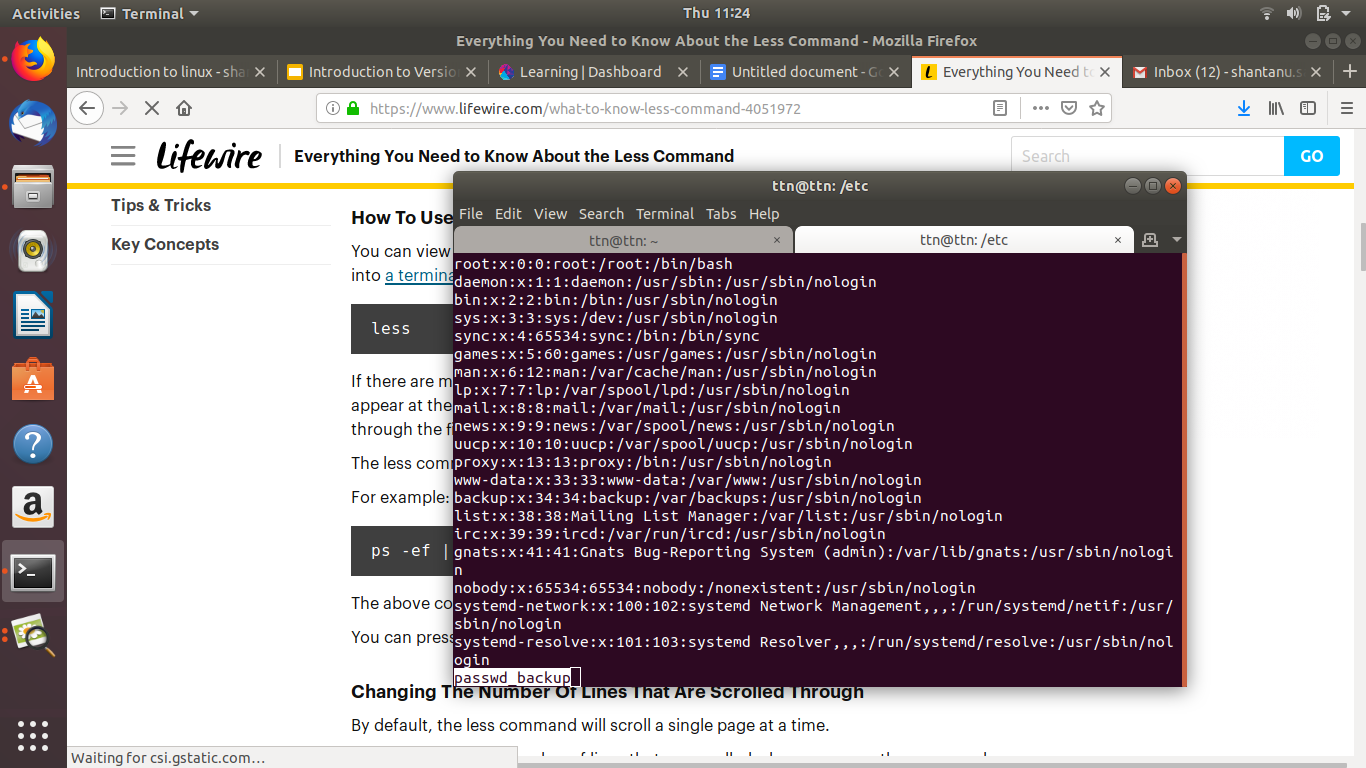
Sudo cp passwd passwd\_copy

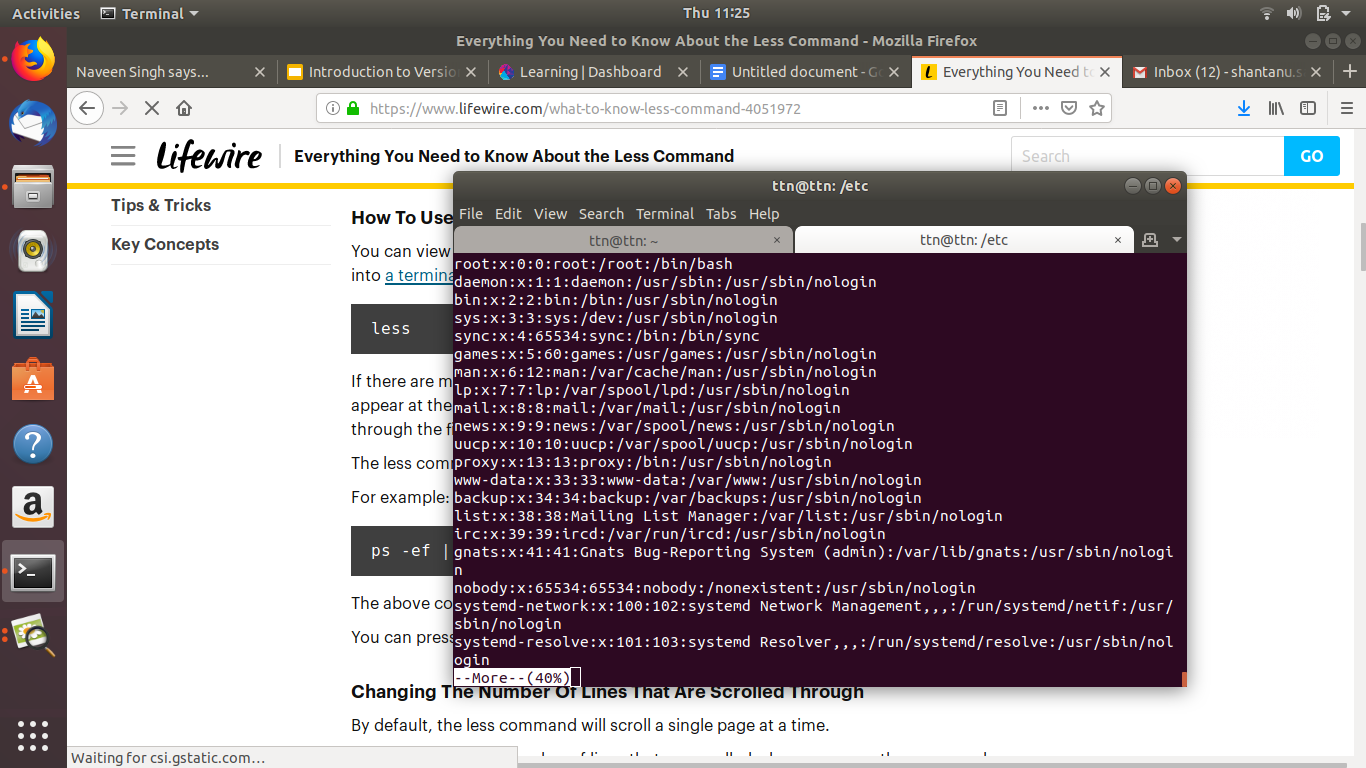
Mv passwd\_copy passwd\_backup

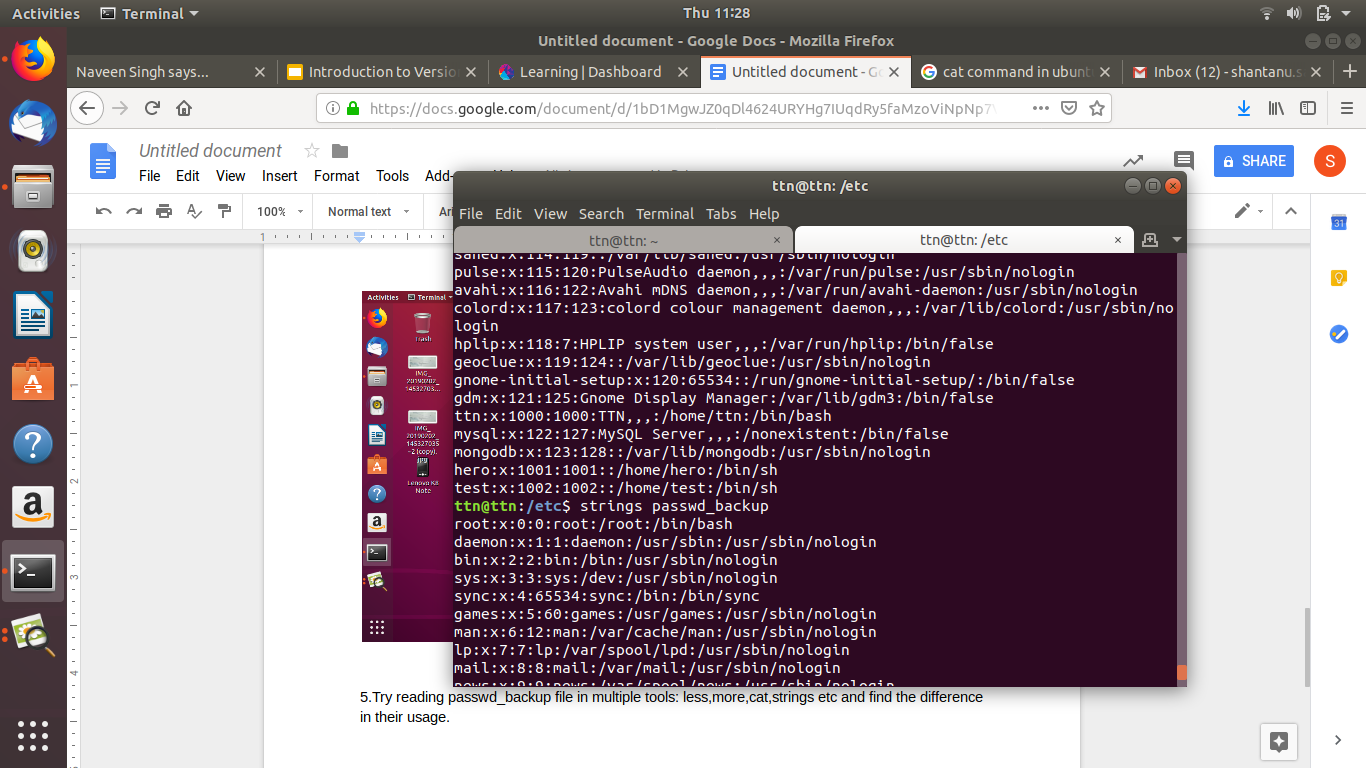


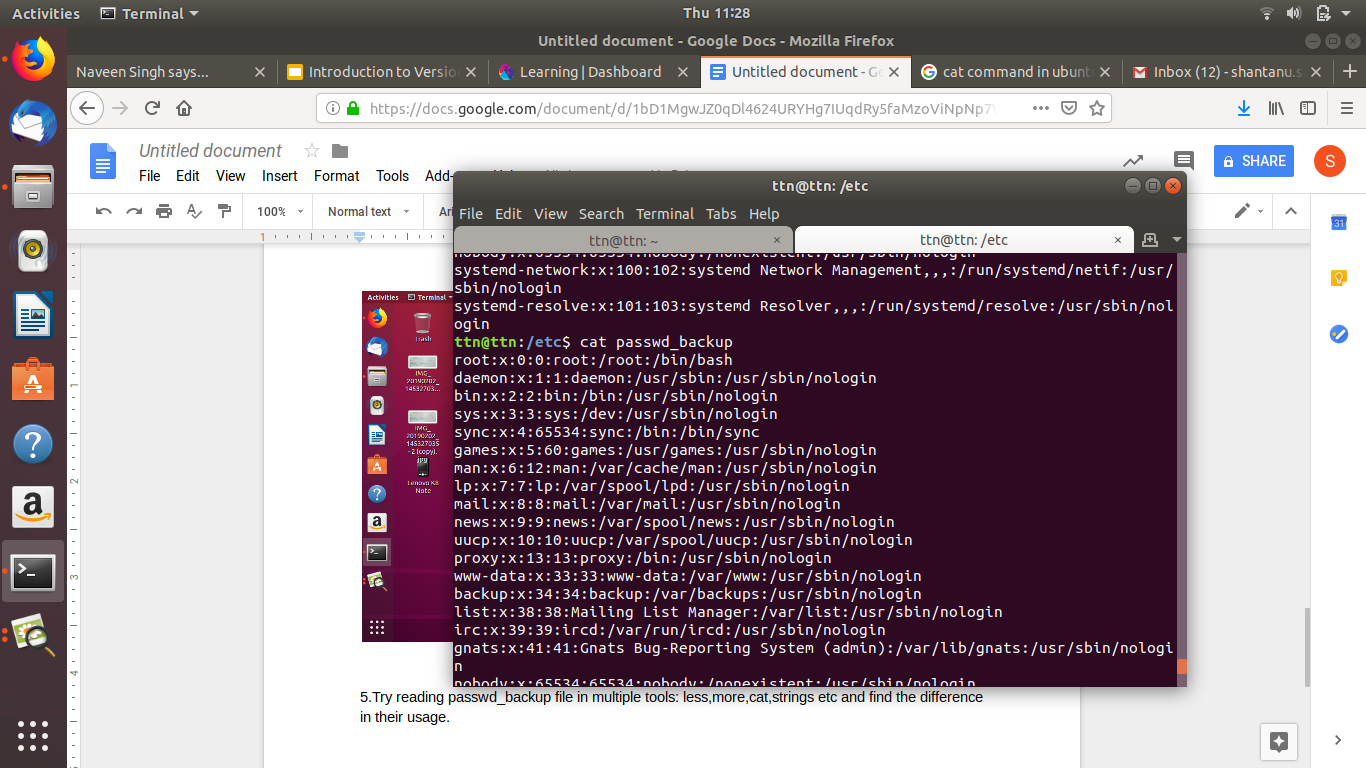


5.Try reading passwd\_backup file in multiple tools: less,more,cat,strings etc and find the difference in their usage.



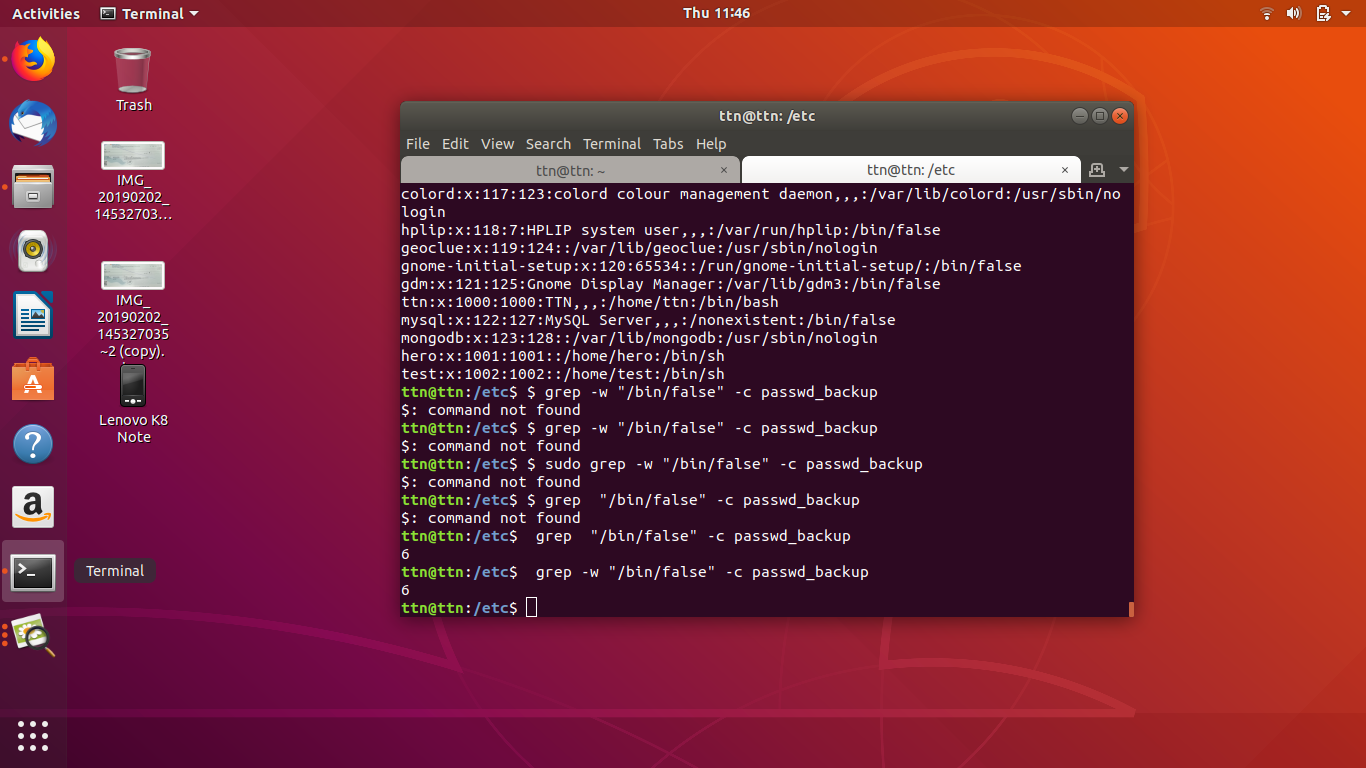




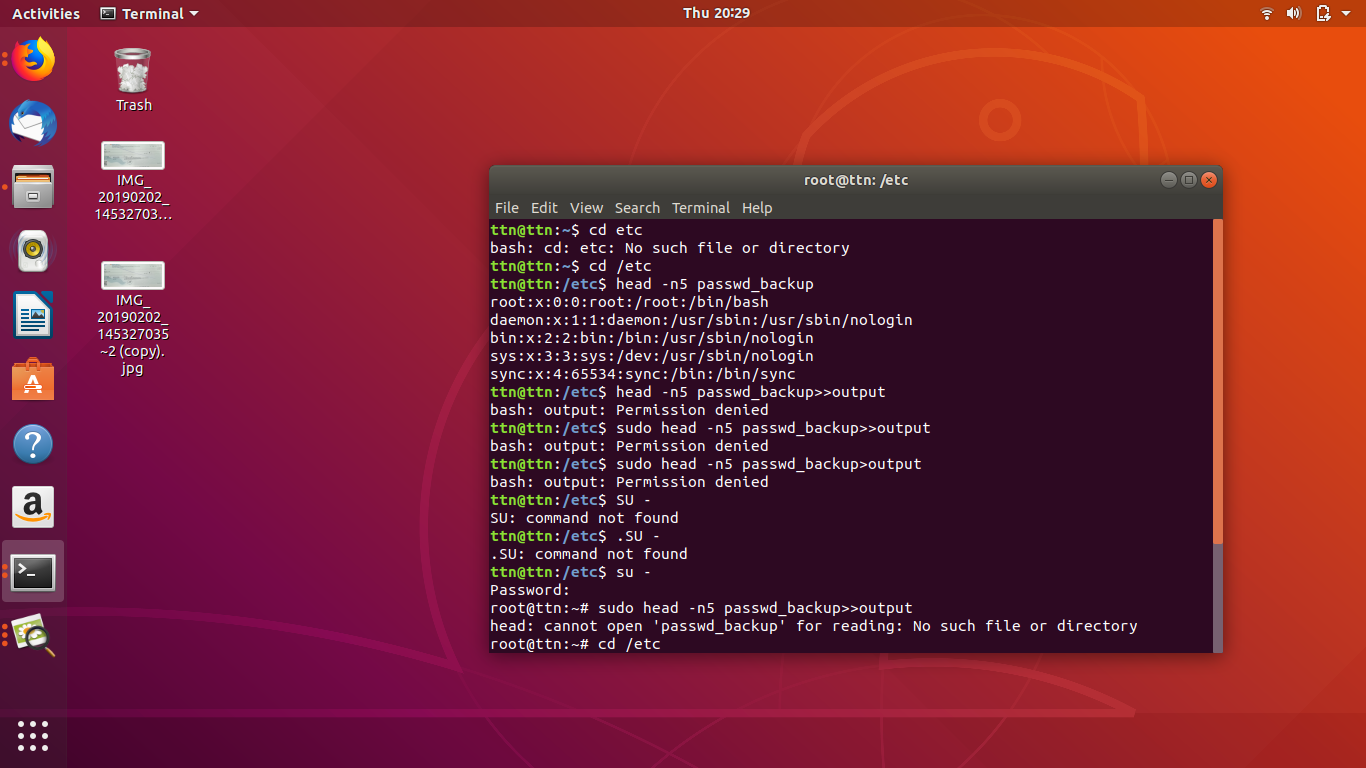


6.Find out the number of line in password\_backup containing "/bin/false".

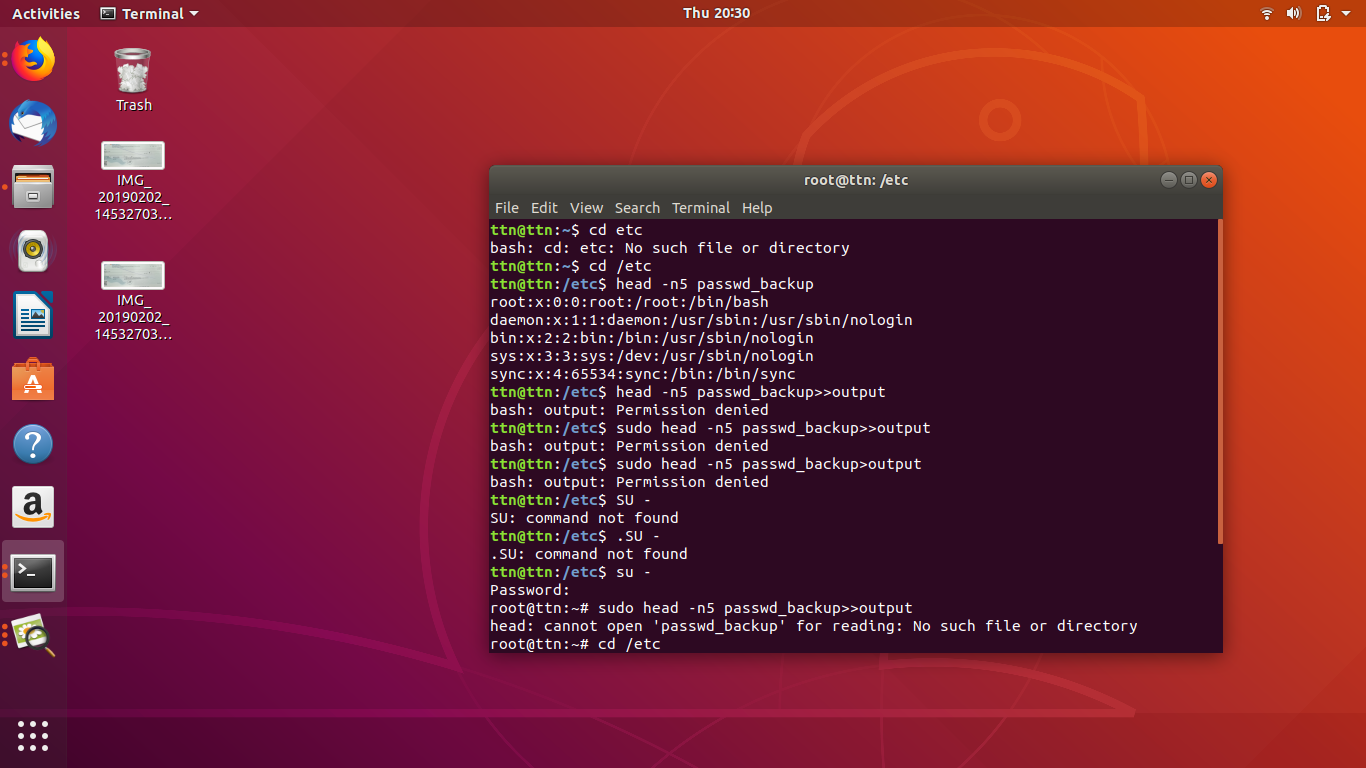
**Ans- grep -w “/bin/false” -c passwd\_backup**



7.Get the first 5 lines of a file “password\_backup” and Redirect the output of the above commands into file "output".



sudo head -n5 passwd\_backup>>output



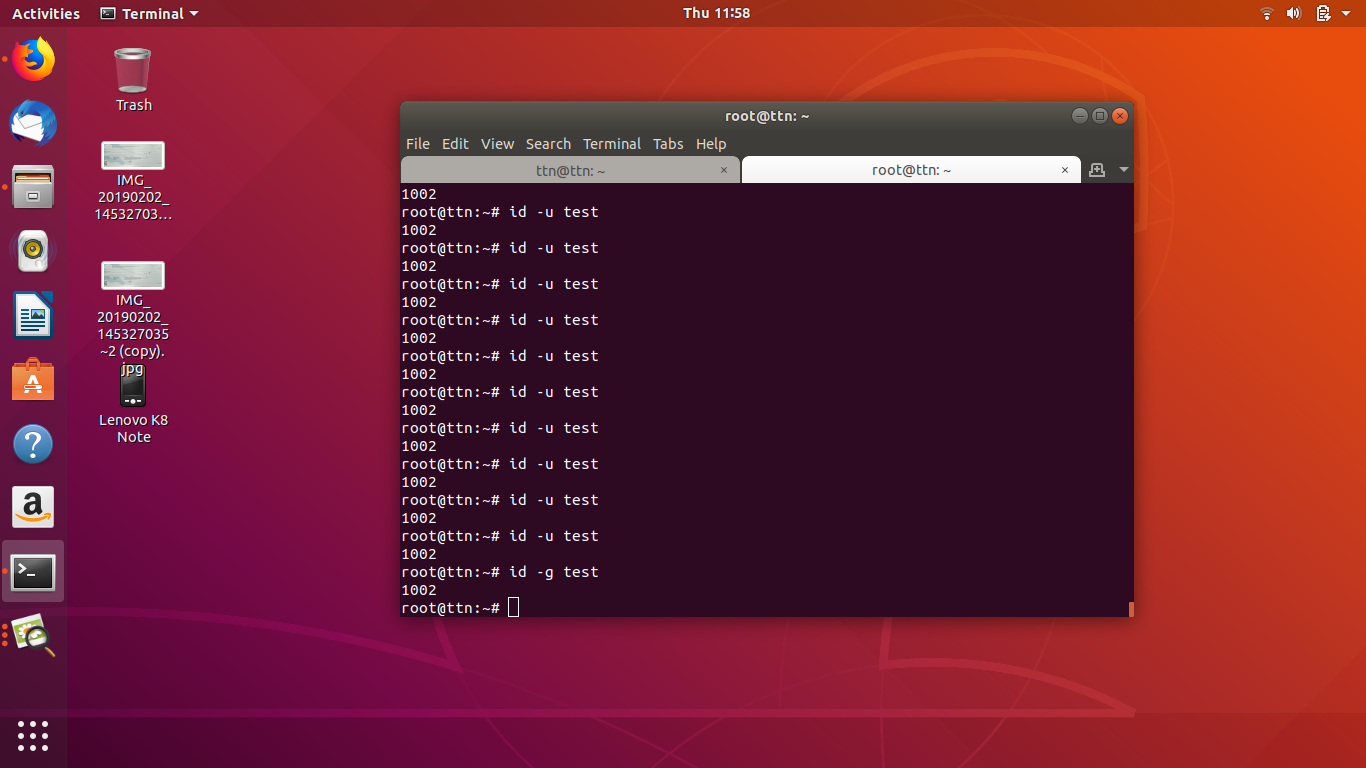
cat output

8.Create a "test" user,create its password and find out its uid and gid.

Ans- **useradd test**

**Id -u test**

**Id -g test**

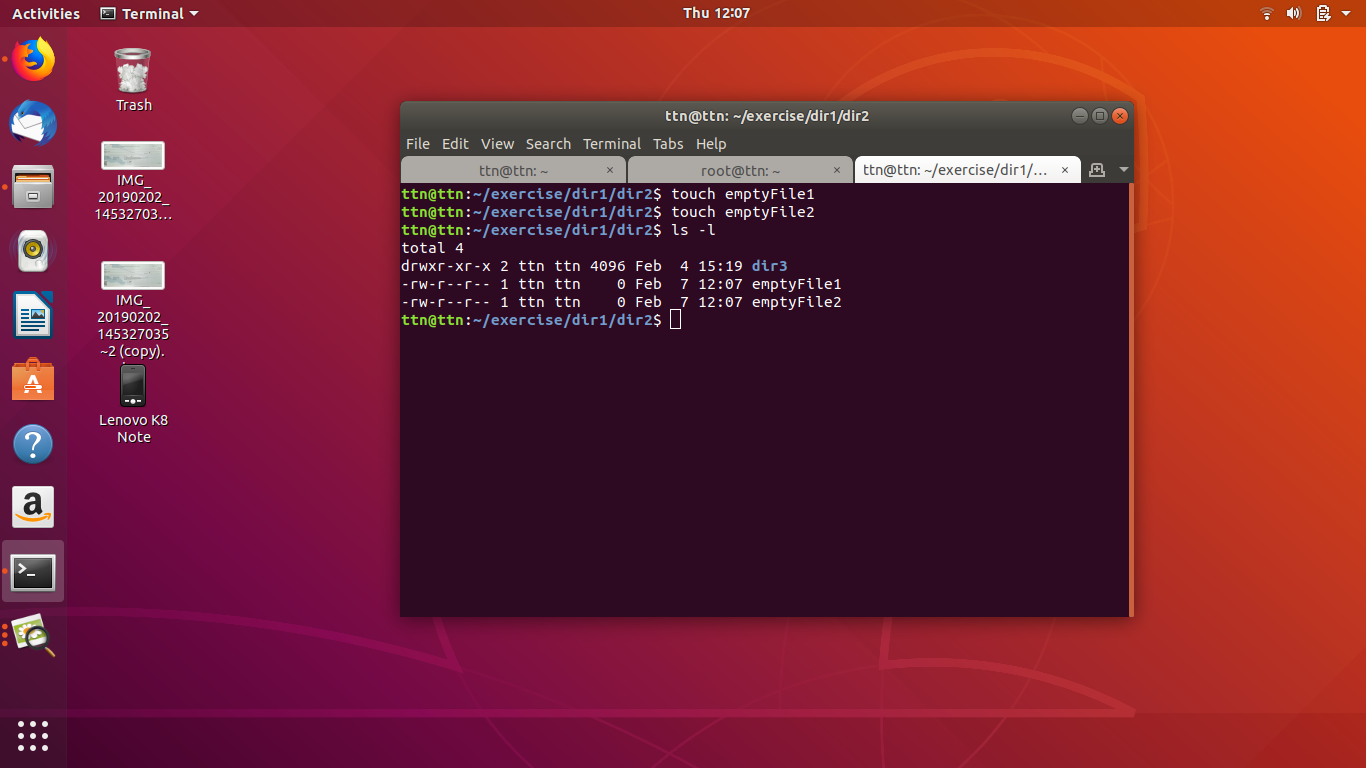


9.Change the timestamp of emptyFile1,emptyFile2 which are exist in dir2

Ans- **touch emptyFile1**

**touch emptyFile2**

**ls -l**

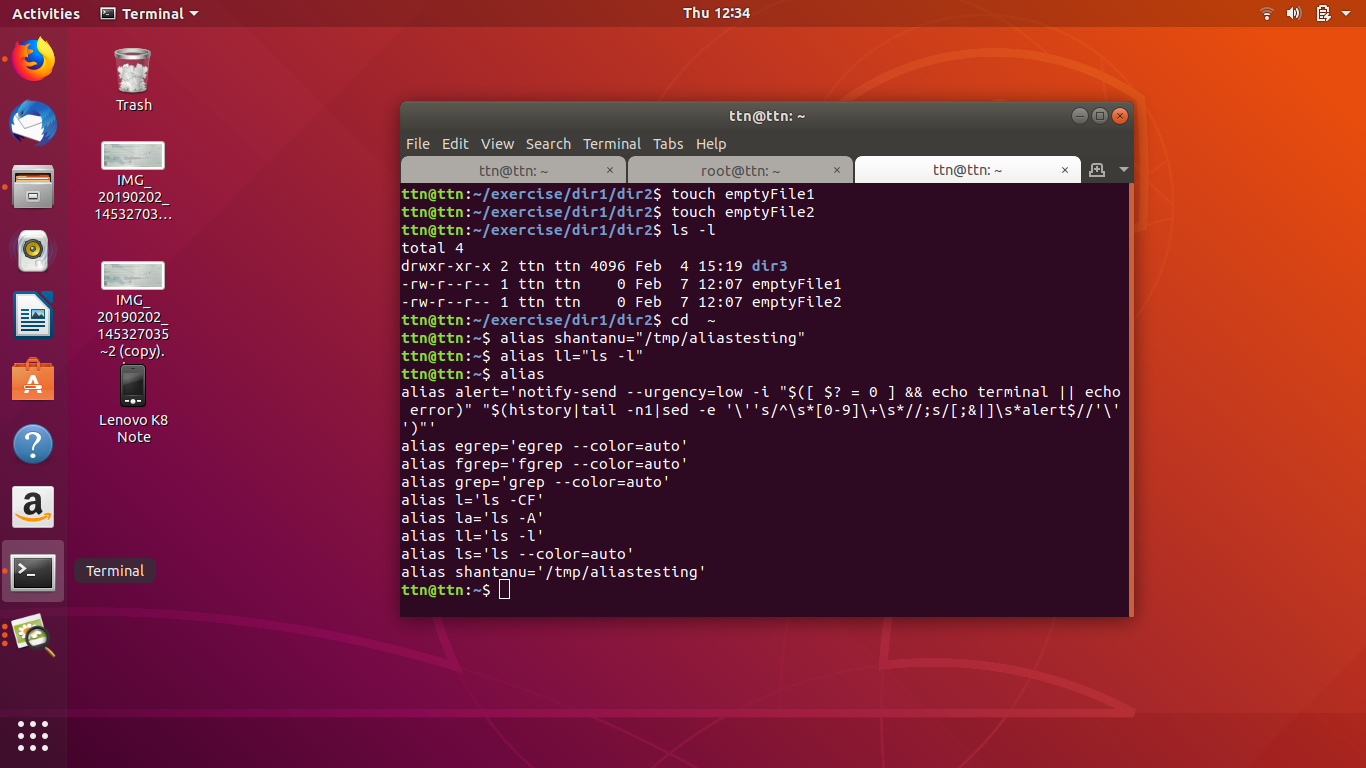


10.Login as test user and edit the "output" file created above. Since the permission wont allow you to save the changes. Configure such that test user can edit it.

* 1. Add group owner of the "output" file as the secondary group of testuser and check/change the "output" file permission if it is editable by group. Once done revert the changes
  2. Make the file editable to the world so that test user can access it. Revert the changes after verification
  3. Change the ownership to edit the file.

11.Create alias with your name so that it creates a file as "/tmp/aliastesting".

**Ans- $ alias shantanu= /tmp/aliastesting**



12.Edit ~/.bashrc file such that when you change to "test" user it should clear the screen and print "Welcome".

Ans-

13.Install “zip” package.

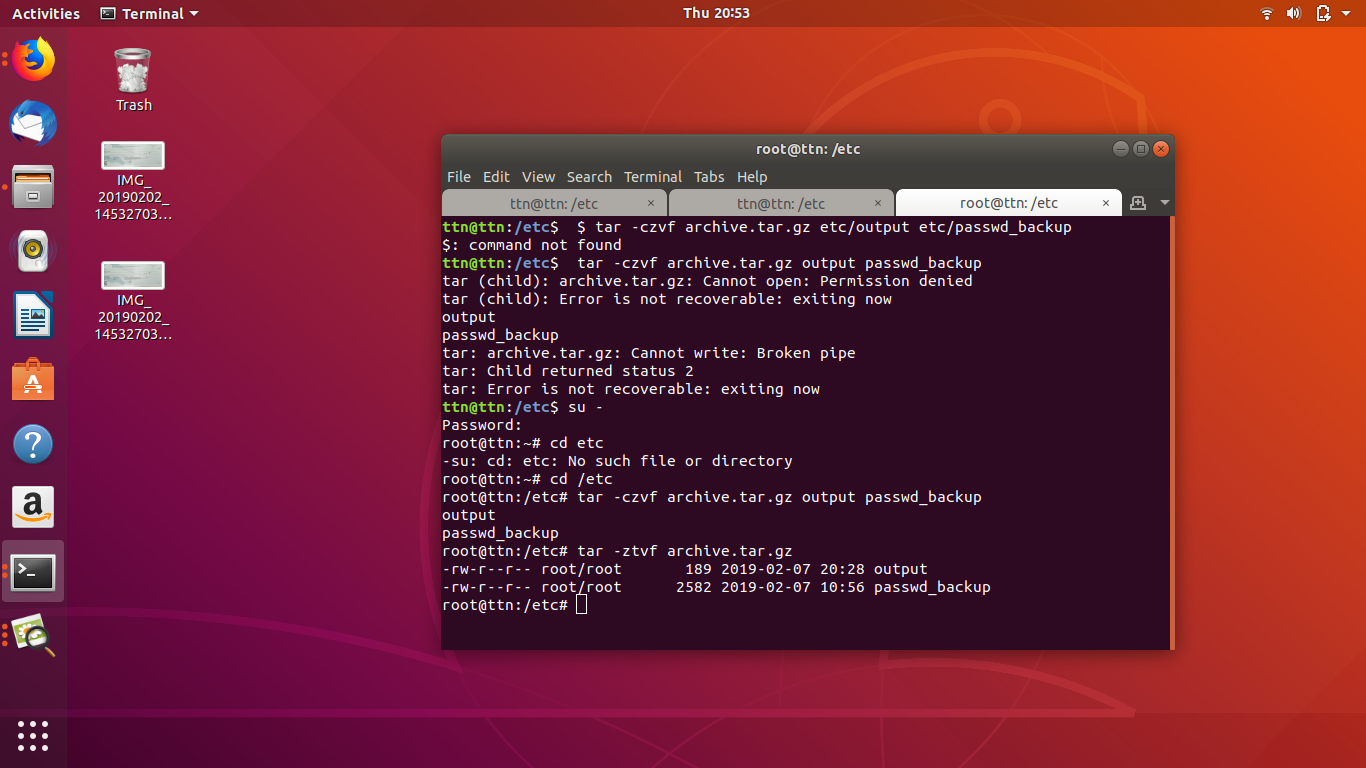
Ans: **unzip yourzipfilename.zip**

**cd yourzipfilename**

**apt-get update  
apt-get install yourzipfile**

14.Compress "output" and "password\_backup" files into a tar ball. List the files present inside the

tar created.

Ans- 

**tar -czvf archive.tar.gz output passwd\_backup**

//to list file inside tar

**tar -ztvf archive.tar.gz**

15.scp this file to test user

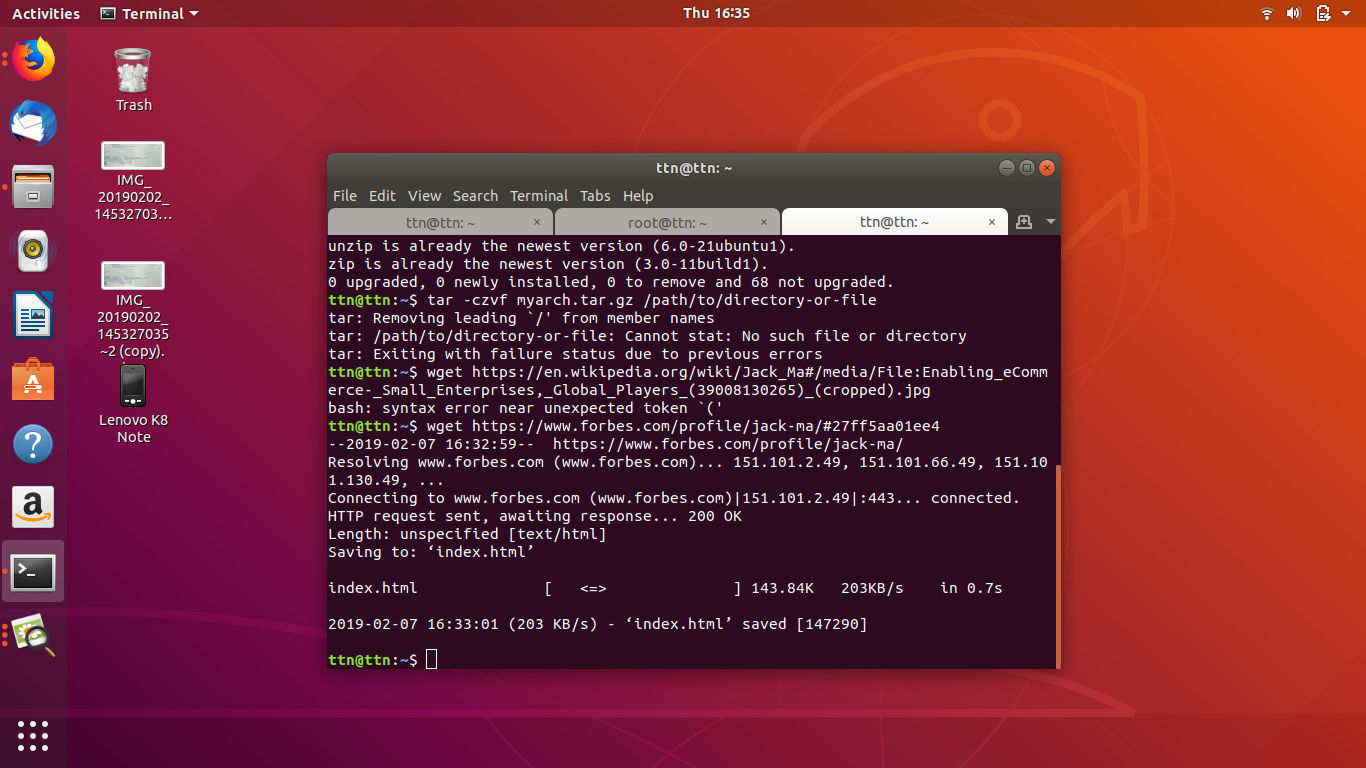
Ans- **scp archive.tar.gz user@remote\_host.com:/my/remote/directory**

16.Unzip this tar bar by logging into the remote server

Ans- **ssh remotehost cat /path/to/archive.tar.gz | tar xzf -**

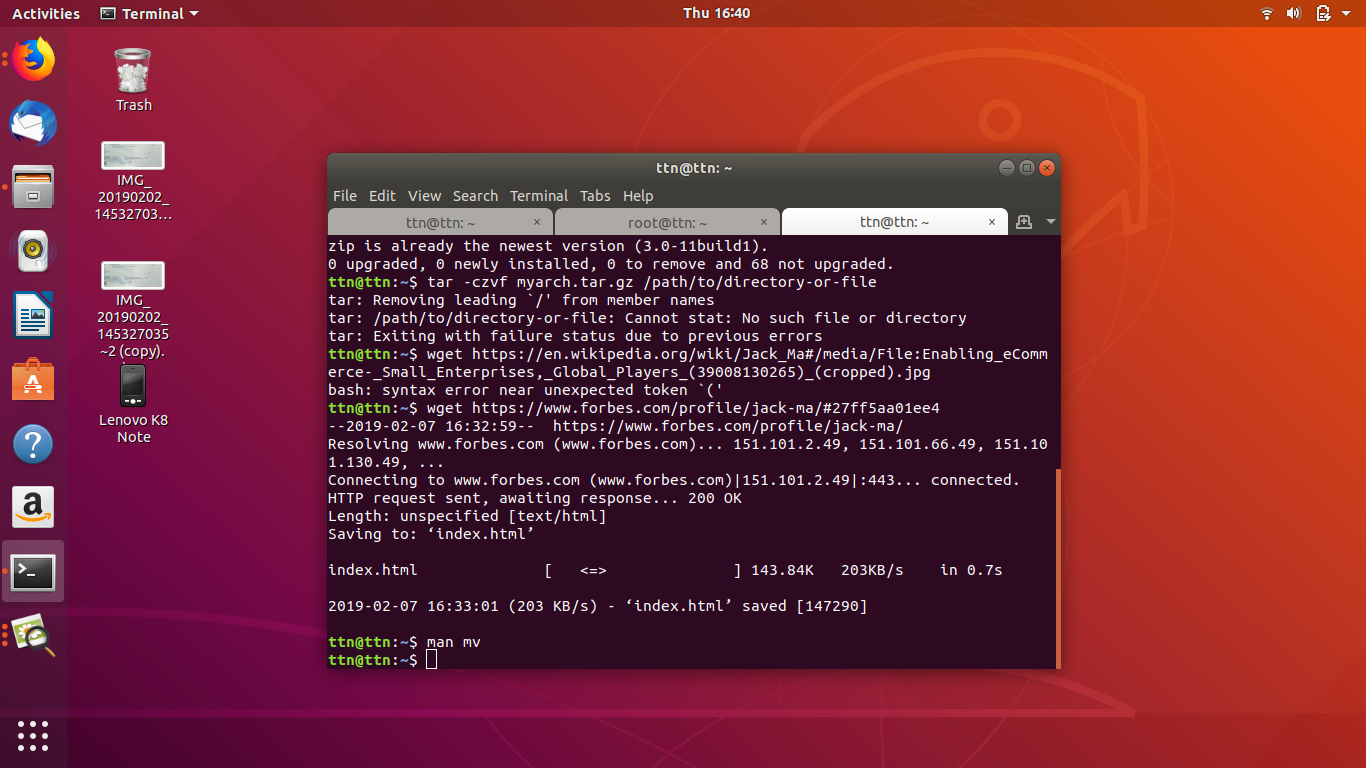
17.Download any image from web and move to desktop

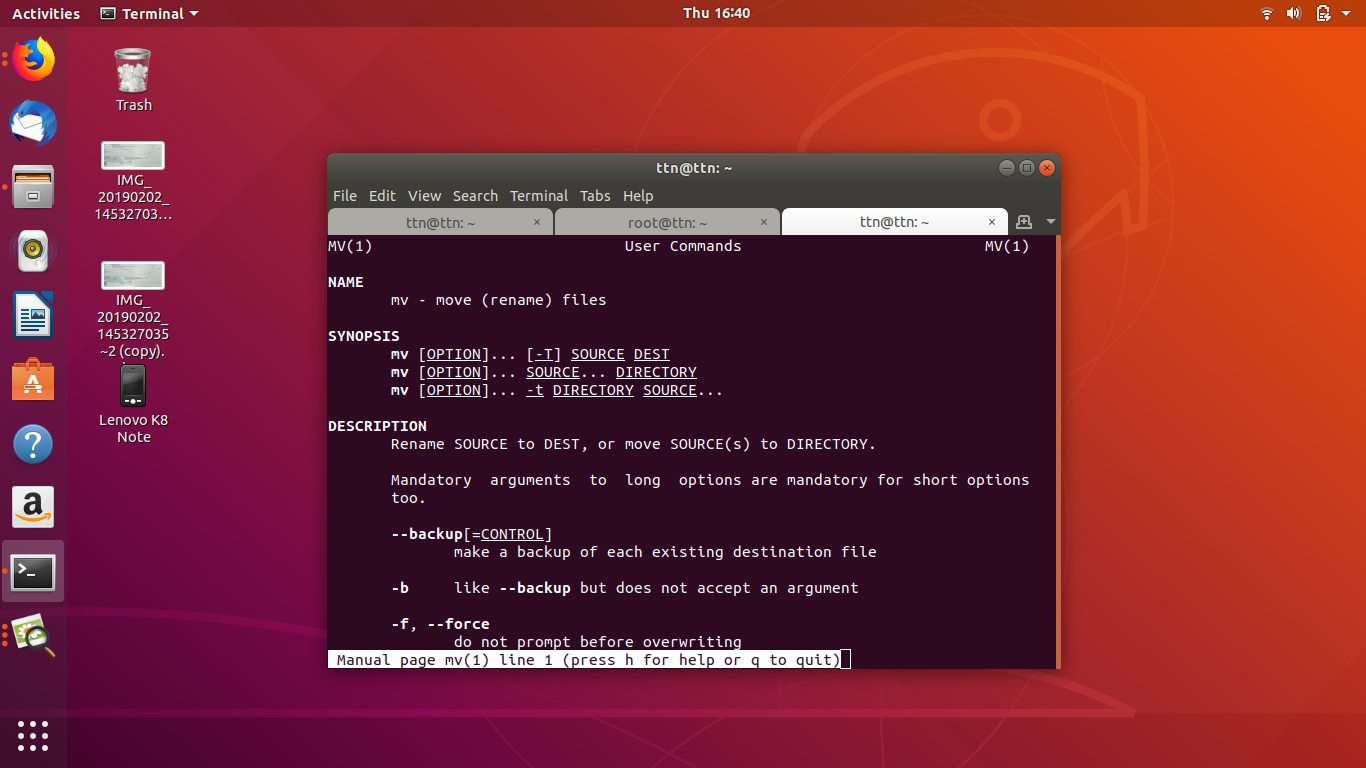
**Ans- $ wget https://www.forbes.com/profile/jack-ma/#27ff5aa01ee4**



18.How to get help of commands usages.

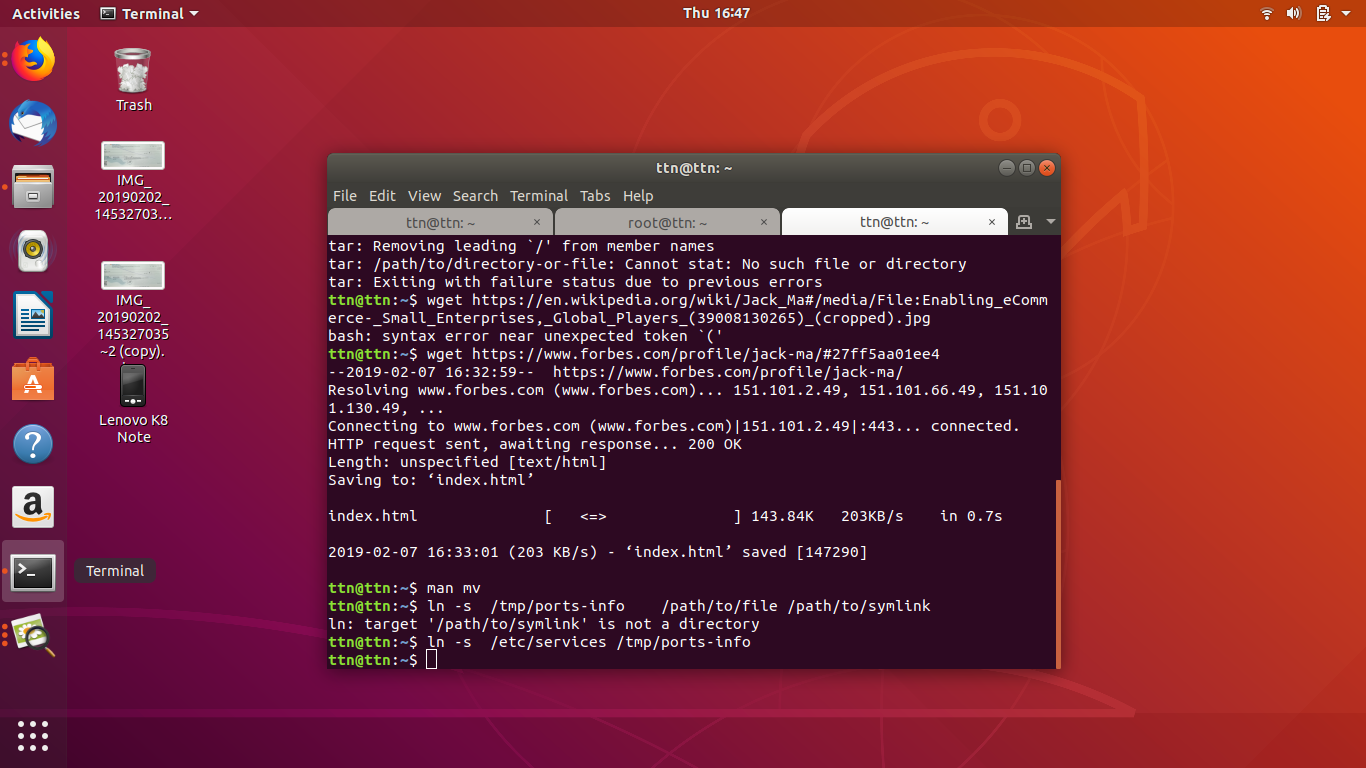
**->Man command**





19.Create a symlink of /etc/services into /tmp/ports-info

**Ans- $ ln -s /etc/services /tmp/ports-info**



20.You are appointed as a Software/DevOps Engineer in ABC media services. On your first day you need to troubleshoot a problem. There is a command “xyz” somewhere installed in that linux system. But as a new joinee you do not have any idea about where is that Installed. How can you check that?

**Ans- $ whereis ls**

