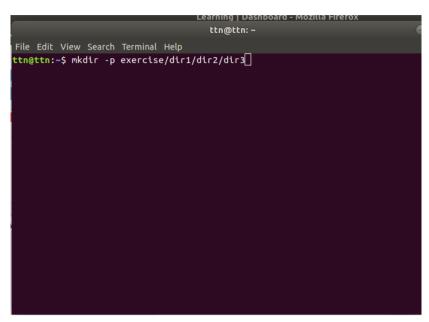
Introduction To Linux

Q1) Create a directory "exercise" inside your home directory and create nested(dir1/dir2/dir3) directory structure inside "excerise" with single command.



Q2) Create two empty files inside dir2 directory: emptyFile1,emptyFile2 in single command

```
ttn@ttn: ~/exercise/dir1/dir2

File Edit View Search Terminal Help

ttn@ttn: ~/exercise/dir1$ cd

ttn@ttn: ~/exercise/dir1/dir2/

ttn@ttn: ~/exercise/dir1/dir2$ touch emptyFile1 emptyFile2

ttn@ttn: ~/exercise/dir1/dir2$ ls

dir3 emptyFile1 emptyFile2

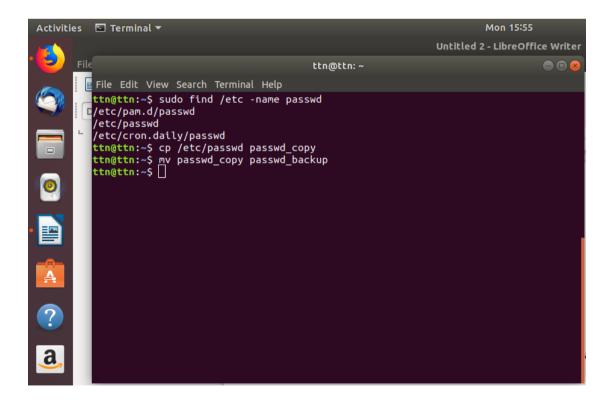
ttn@ttn: ~/exercise/dir1/dir2$ □
```

Q3)
Create one file file1.txt containing text "hello world" and save it.

```
ttn@ttn: ~
File Edit View Search Terminal Help
Get:68 http://in.archive.ubuntu.com/ubuntu bionic-backports/universe DEP-11 64x6
4 Icons [29 B]
Fetched 39.4 MB in 48min 35s (13.5 kB/s)
Reading package lists... Done
ttn@ttn:~$ touch file1.txt
ttn@ttn:~$ ls -l
total 56
drwxr-xr-x 2 ttn ttn 4096 Jan 26 02:22 Desktop
drwxr-xr-x 2 ttn ttn 4096 Feb 4 16:43 Documents
drwxr-xr-x 2 ttn ttn 4096 Feb 3 17:06 Downloads
-rw-r--r-- 1 ttn ttn 8980 Jan 25 20:43 examples.desktop
drwxr-xr-x 3 ttn ttn 4096 Feb
                               4 14:51 exercise
-rw-r--r-- 1 ttn ttn
                        0 Feb
                               4 17:20 file1.txt
drwxr-xr-x 2 ttn ttn 4096 Jan 26 02:22 Music
-rw-r--r-- 1 ttn ttn 189 Feb 4 16:29 output
-rw-r--r-- 1 ttn ttn 2398 Feb
                                4 15:55 passwd backup
drwxr-xr-x 2 ttn ttn 4096 Feb 4 17:16 Pictures
drwxr-xr-x 2 ttn ttn 4096 Jan 26 02:22 Public
drwxr-xr-x 2 ttn ttn 4096 Jan 26 02:22 Templates
drwxr-xr-x 2 ttn ttn 4096 Jan 26 02:22 Videos
ttn@ttn:~$ echo "Hello World" >> file1.txt
ttn@ttn:~$ cat file1.txt
Hello World
ttn@ttn:~$
```

Q4)

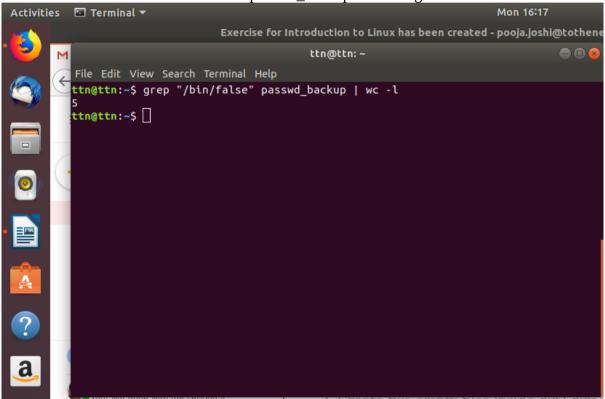
Find a "passwd" file using find command inside /etc. copy this files as passwd_copy and then rename this file as passwd_backup.



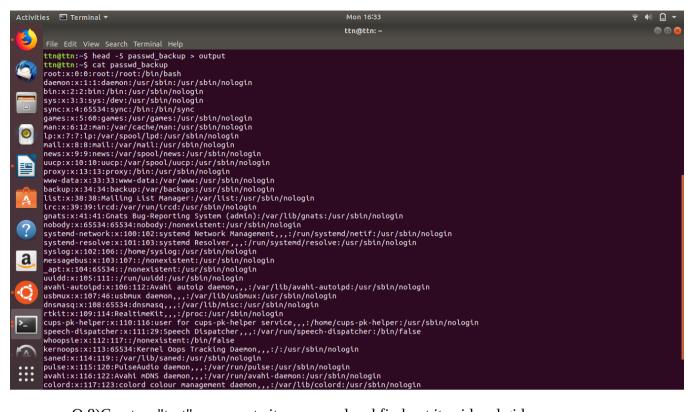
Q 5) Try reading passwd_backup file in multiple tools:less,more,cat,string,etc.

less passwd_backup more passwd_backup cat passwd_backup strings passwd_backup

Q 6) Find out the number of line in passwd_backup containing "/bin/false".



Q 7) Get the first 5 lines of a file "passwd_backup" and Redirect the output of the above commands into file "output".



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



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

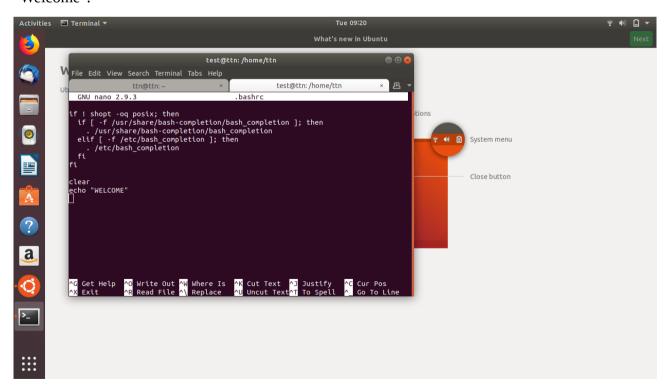
Q 10)

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.

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



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



Q 13) Install "zip" package.

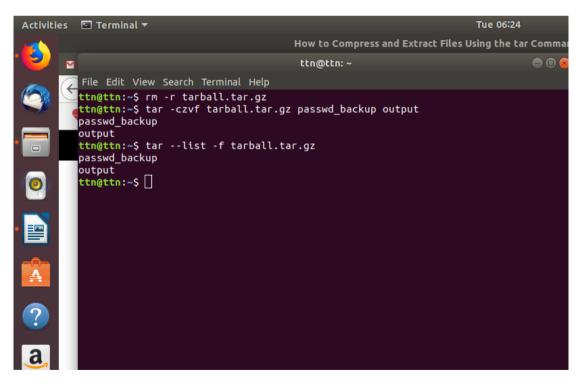
```
ttn@ttn:~$ sudo apt-get install zip
[sudo] password for ttn:
Reading package lists... Done
Building dependency tree
Reading state information... Done
zip is already the newest version (3.0-11build1).

o upgraded, o newly installed, o to remove and 430 not upgraded.
ttn@ttn:~$ 

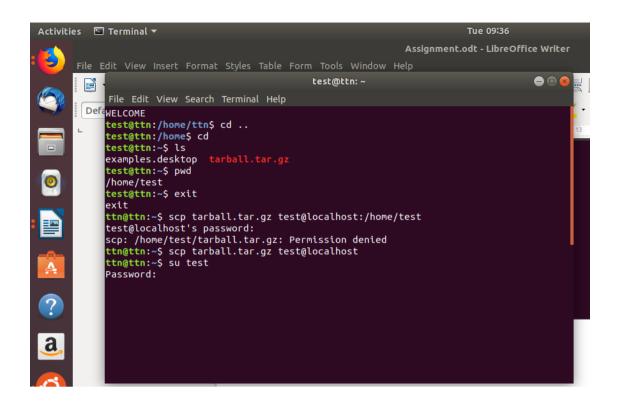
?

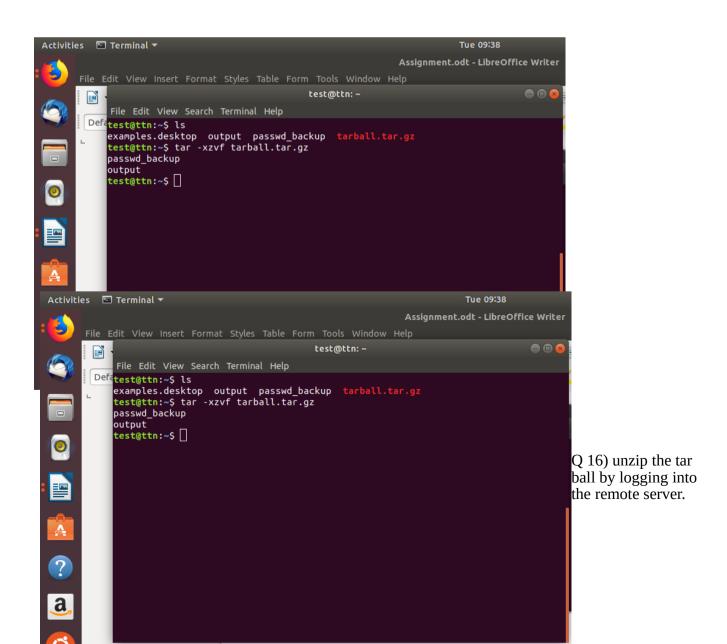
a.
```

Q 14) Compress "output" and "passwd_backup" files into a tar ball. List the files present inside the tar created.

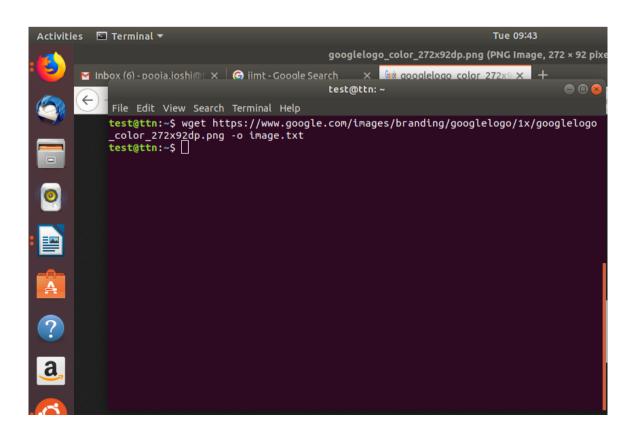


Q 15) scp this file to test user

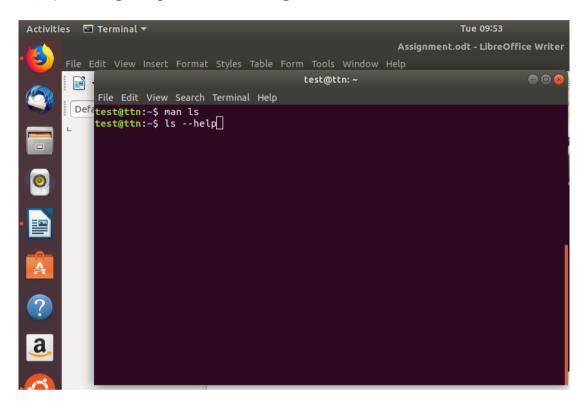


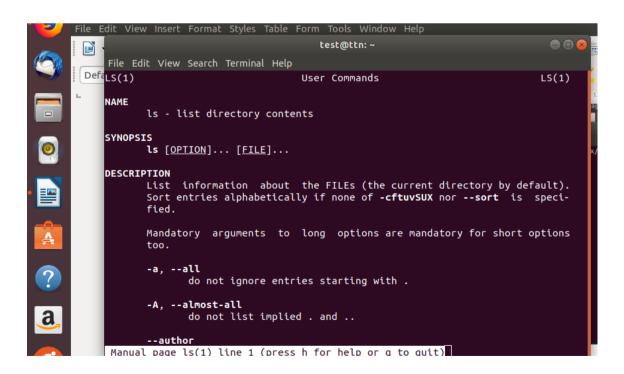


Q 17) download any image from web and move to desktop.

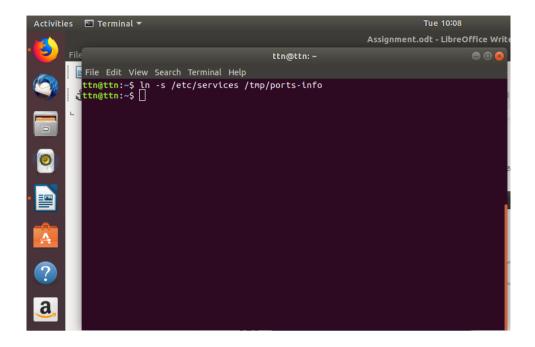


Q 18) How to get help of commands usages.





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



Q 20)
To find the location of "xyz" command "which " and "whereis" is used-

