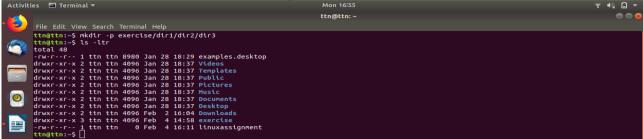
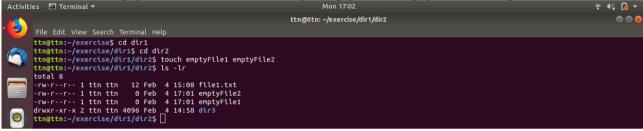
Exercise(Mehak Adlakha):

1. Create a directory "exercise" inside your home directory and create nested(dir1/dir2/dir3)

directory structure inside "excerise" with single command.



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

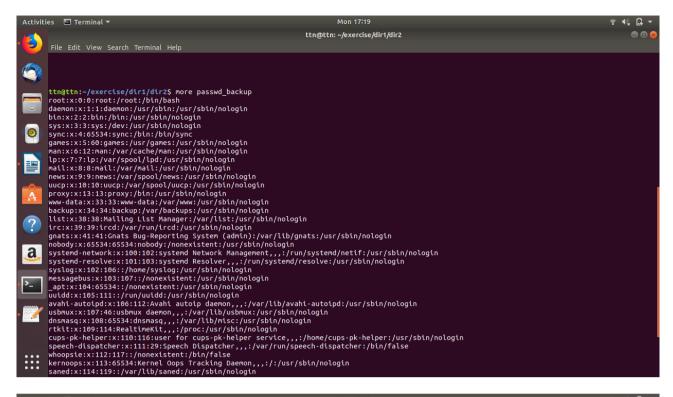


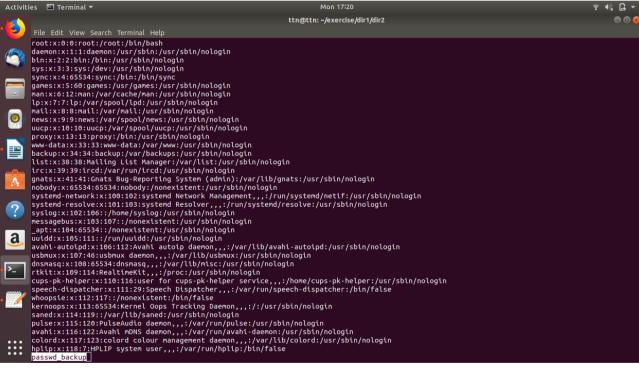
3. Create one file file1.txt containing text "hello world" and save it.

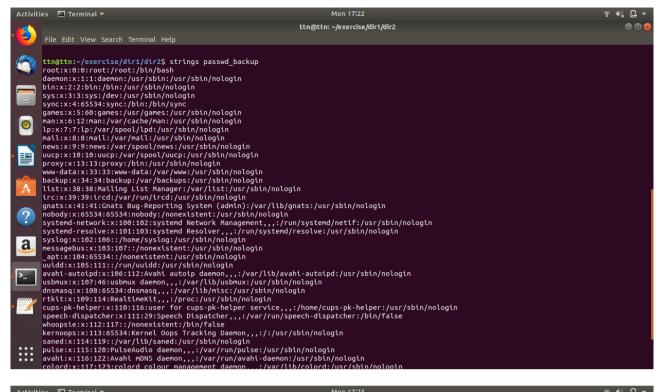


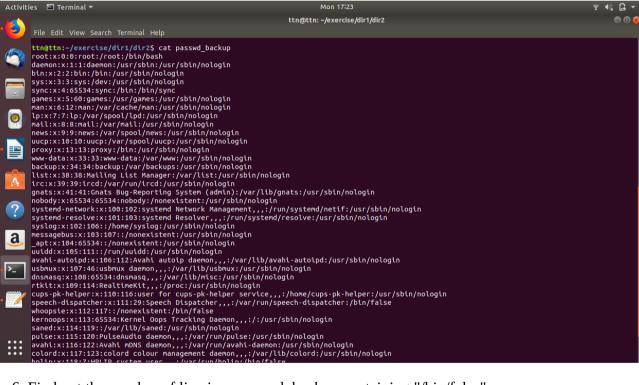
4. Find a "passwd" file using find command inside /etc. copy this files as passwd_copy and then rename this file as passwd_backup.

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

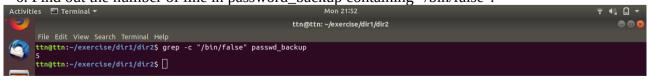




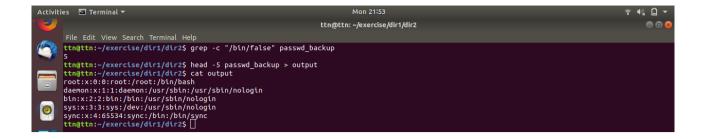




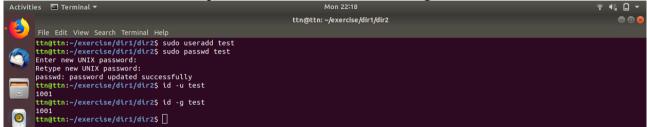
6. Find out the number of line in password backup containing "/bin/false".



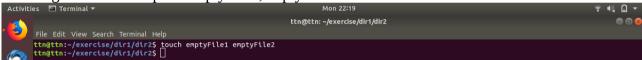
7. Get the first 5 lines of a file "password_backup" and Redirect the output of the above commands into file "output".



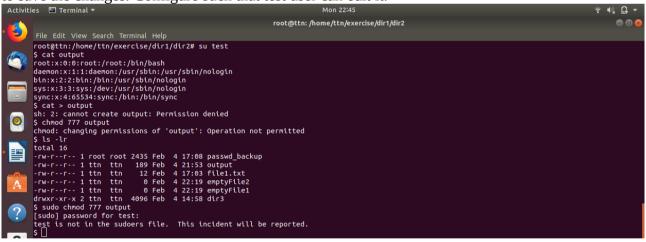
8. Create a "test" user, create its password and find out its uid and gid.

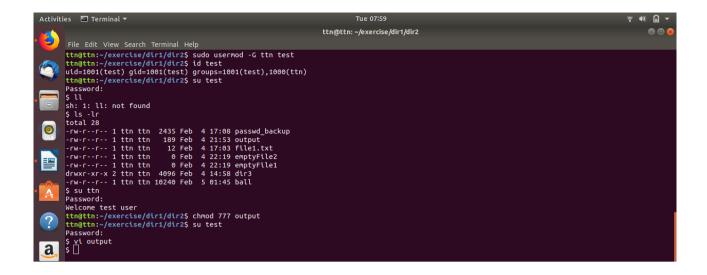


9. Change the timestamp of emptyFile1,emptyFile2 which are exist in dir2

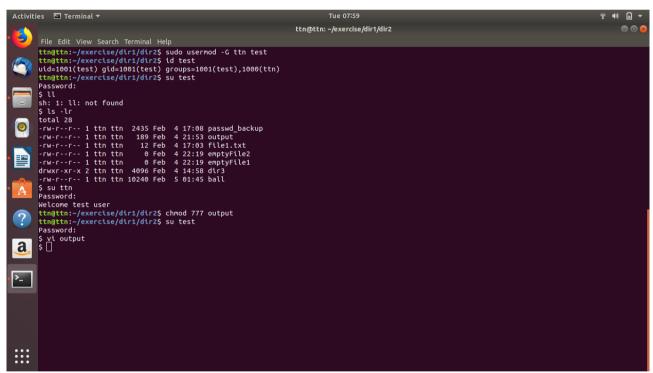


10. Login as test user and edit the "output" file created above. Since the permission wont allow you to save the changes. Configure such that test user can edit it.

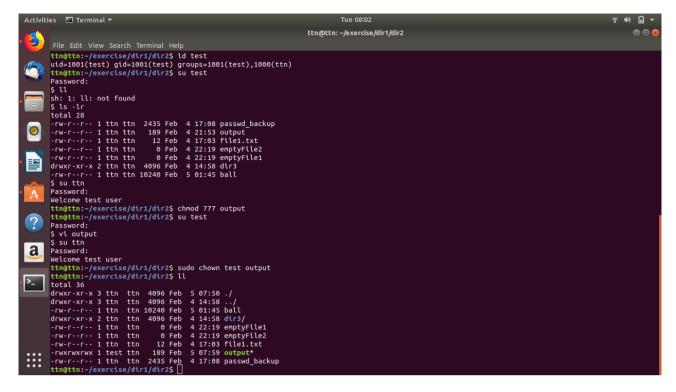




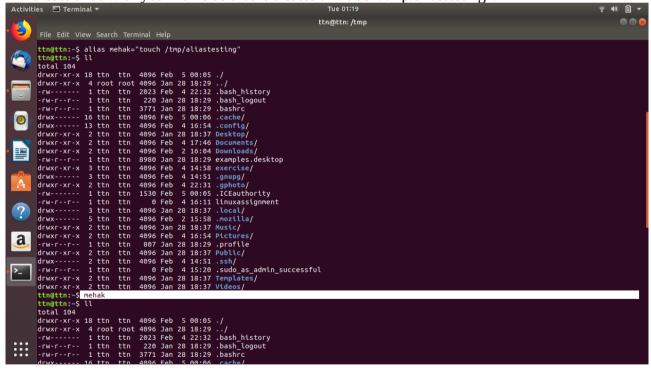
- 1) Add group owner of the "output" file as the secondary group of testuser and check/change the "output" file permission if it is editable by group. Once done revert the changes
- 2) Make the file editable to the world so that test user can access it. Revert the changes after verification



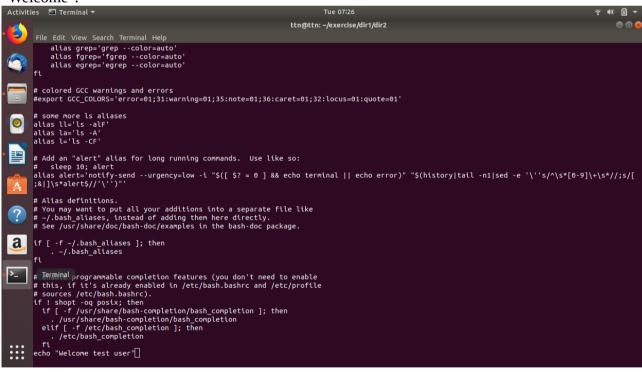
3) Change the ownership to edit the file.



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



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



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Activities Terminal Tue 01:42 The 01
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14. Compress "output" and "password_backup" files into a tar ball. List the files present inside the tar created.



15. scp this file to test user



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

17.Download any image from web and move to desktop

```
Activities Terminal Tue 07:50

ttn@ttn:-/exercise/dir1/dir2

File Edit View Search Terminal Help

ttn@ttn:-/exercise/dir1/dir2$ ll

total 116

drwxr-xr-x 3 ttn ttn 4096 Feb 5 07:48 ./
drwxr-xr-x 3 ttn ttn 4096 Feb 5 01:45 ball

drwxr-xr-x 3 ttn ttn 4096 Feb 4 14:58 ../
-rw-r--r- 1 ttn ttn 10240 Feb 5 01:45 ball
drwxr-xr-x 2 ttn ttn 4096 Feb 4 14:58 dtr3/
-rw-r--r- 1 ttn ttn 0 Feb 4 22:19 emptyFile1
-rw-r--r- 1 ttn ttn 12 Feb 4 17:03 file1.txt

-rw-r--r- 1 ttn ttn 12 Feb 4 17:03 file1.txt

-rw-r--r- 1 ttn ttn 189 Feb 4 21:19 emptyFile2
-rw-r--r- 1 ttn ttn 12 A35 Feb 4 17:03 file1.txt
-rw-r--r- 1 ttn ttn 78754 May 31 2016 work-area.jpg

ttn@ttn:-/exercise/dir1/dir2$ sudo mv work-area.jpg /home/desktop

[sudo] password for ttn:
Sorry, try again.
[sudo] password for ttn:

[sudo] password for ttn:

sorry, try again.
[sudo] password for ttn:
```

18. How to get help of commands usages.

- 1. man [command name]
- 2. [command name] –help

19. Create a symlink of /etc/services into /tmp/ports-info ttn@ttn: ~/exercise/dir1/dir2 ttn@ttn:~/exercise/dir1/dir2\$ ln -s /etc/services /tmp/ports-info
ttn@ttn:-/exercise/dir1/dir2\$ cat /tmp/ports-info
Network services, Internet style
#
Note that it is presently the policy of IANA to assign a single well-known
port number for both TCP and UDP; hence, officially ports have two entries
even if the protocol doesn't support UDP operations.
even if the protocos seem.

"Updated from http://www.iana.org/assignments/port-numbers and other
sources like http://www.freebsd.org/cgi/cvsweb.cgi/src/etc/services .
New ports will be added on request if they have been officially assigned
by IANA and used in the real-world or are needed by a debian package.
If you need a huge list of used numbers please install the nmap package. 1/tcp 7/tcp 7/udp 9/tcp 9/udp 11/tcp 13/tcp 15/tcp 15/tcp 18/tcp 18/udp 19/tcp 19/tcp # TCP port service multiplexer echo discard discard systat daytime daytime netstat qotd sink null sink null users quote msp msp chargen # message send protocol ttytst source ttytst source chargen ftp-data ftp fsp ssh fspd # SSH Remote Login Protocol telnet mail timserver timserver

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?

which xyz