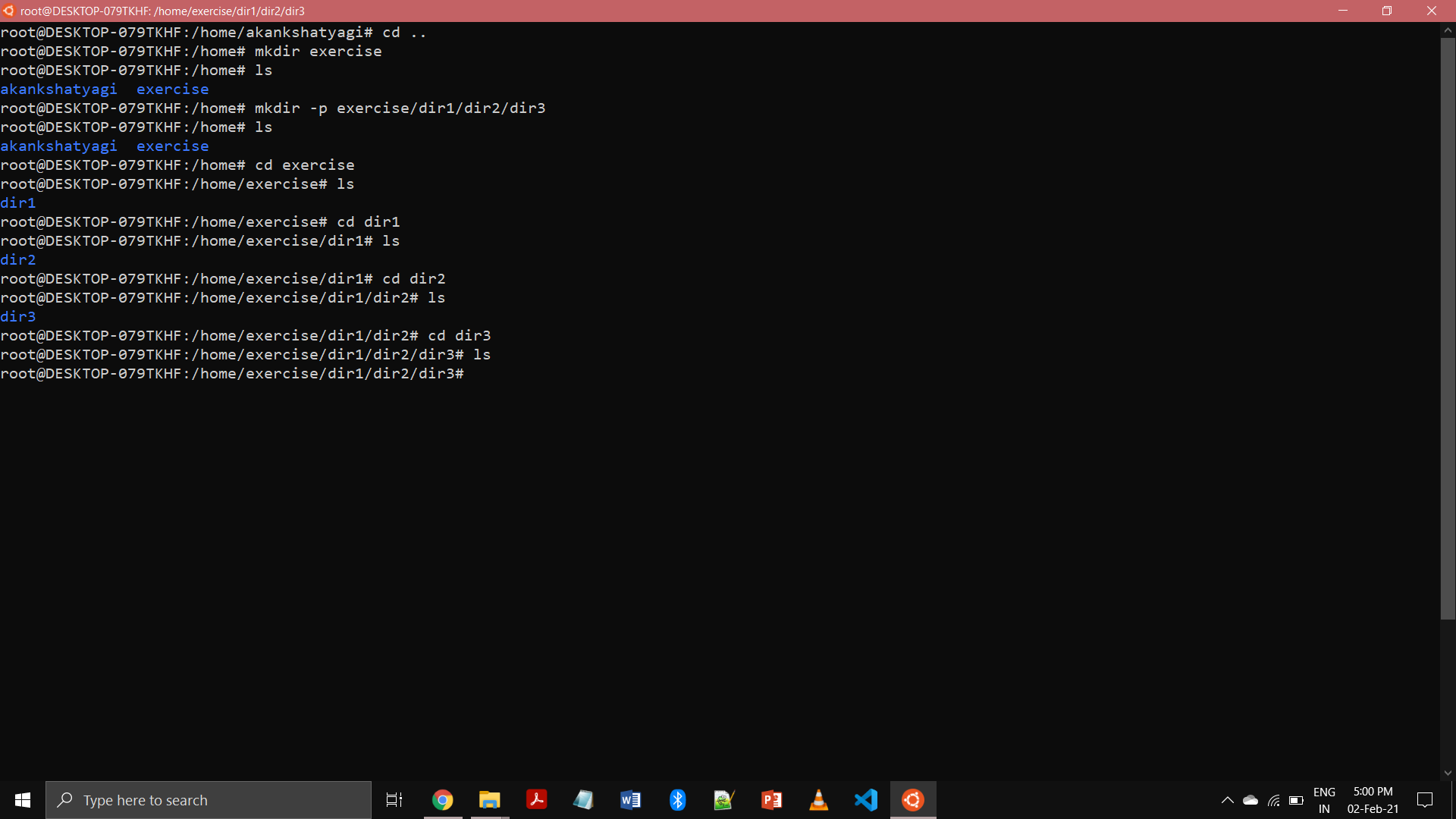
Linux Assignment

Akanksha Tyagi

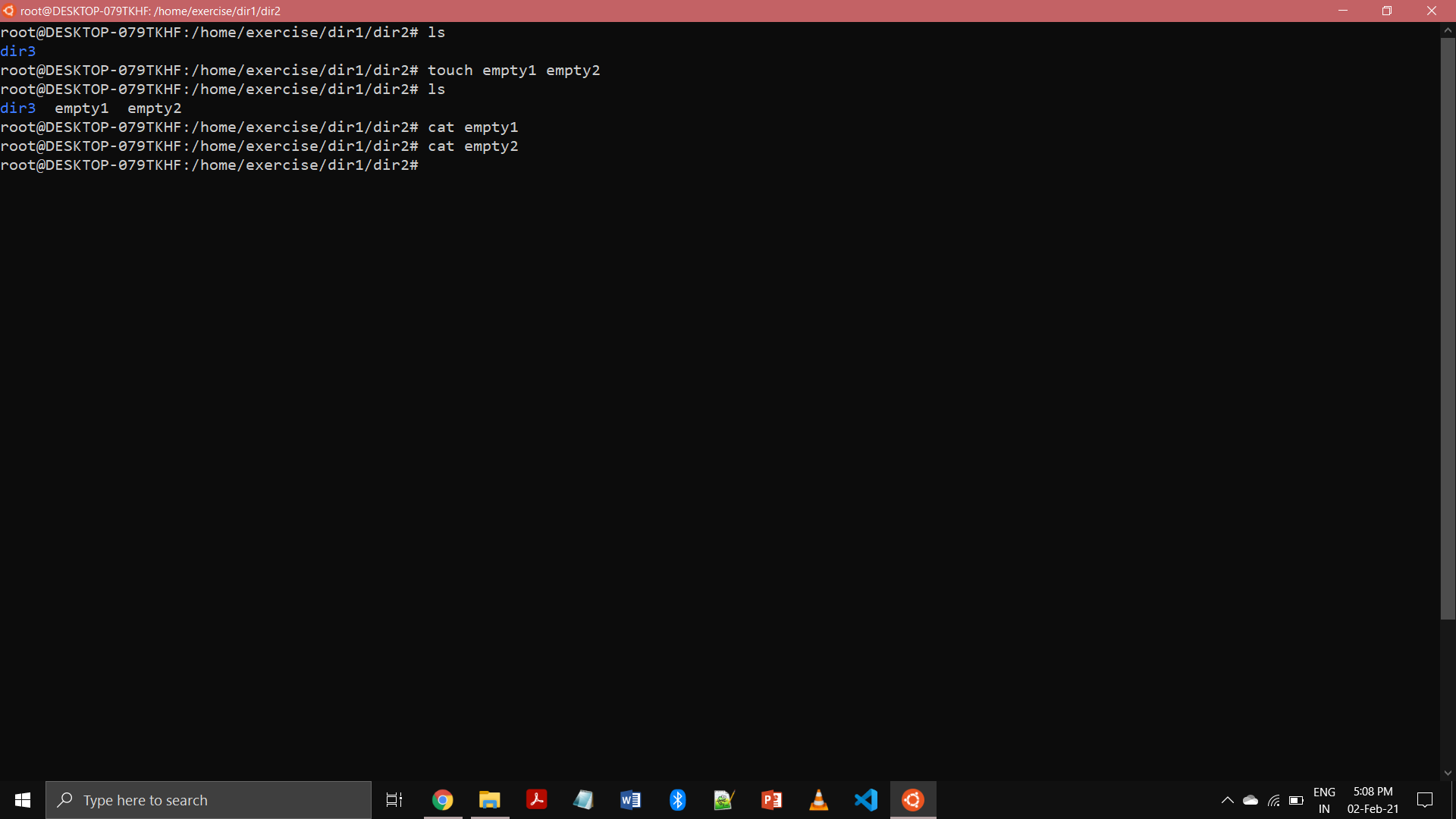
ID-4701

JVM Trainee

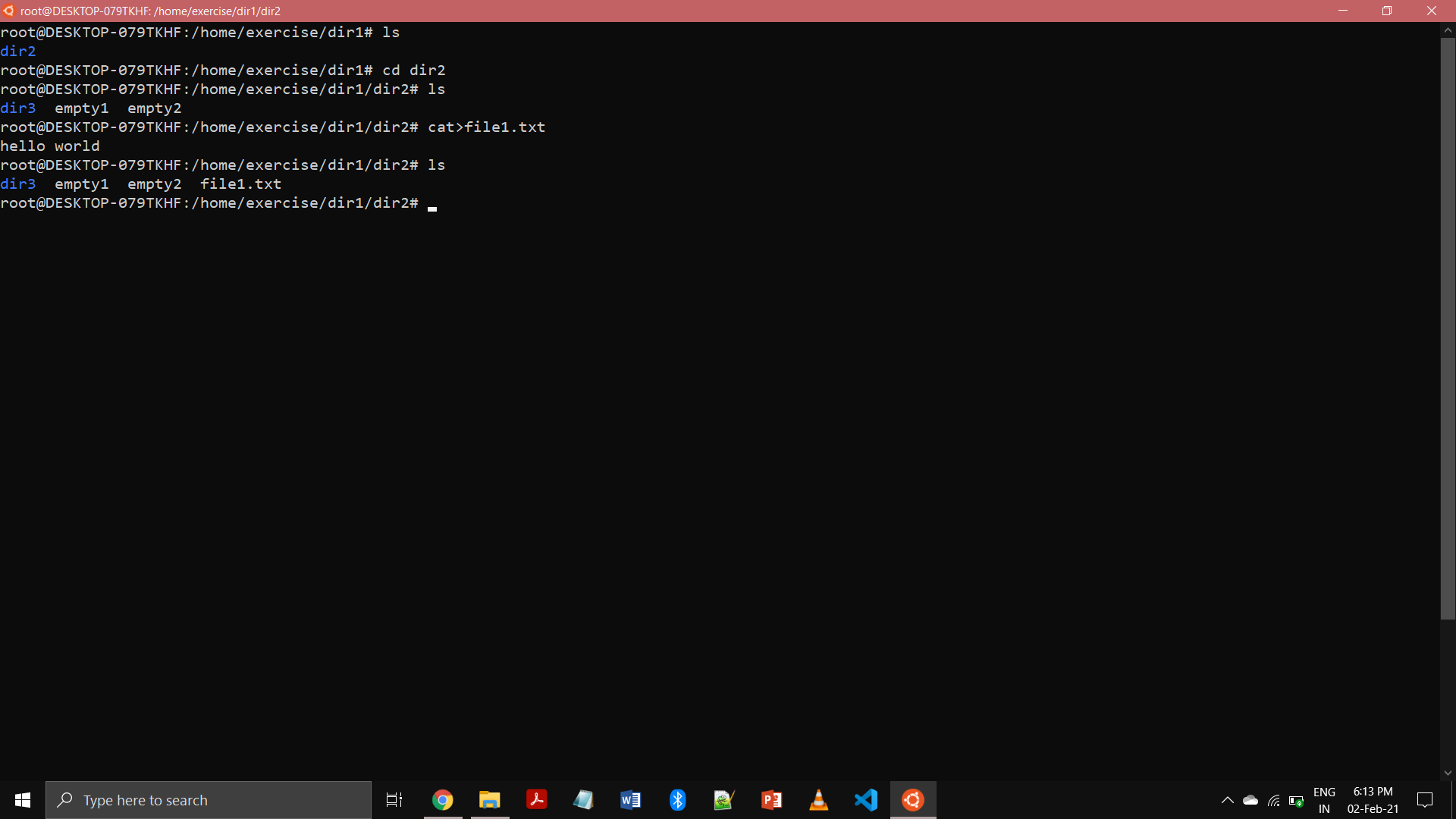
1. Create a directory "exercise" inside your home directory and create nested (dir1/dir2/dir3) directory structure inside "exercise" with a single command.



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

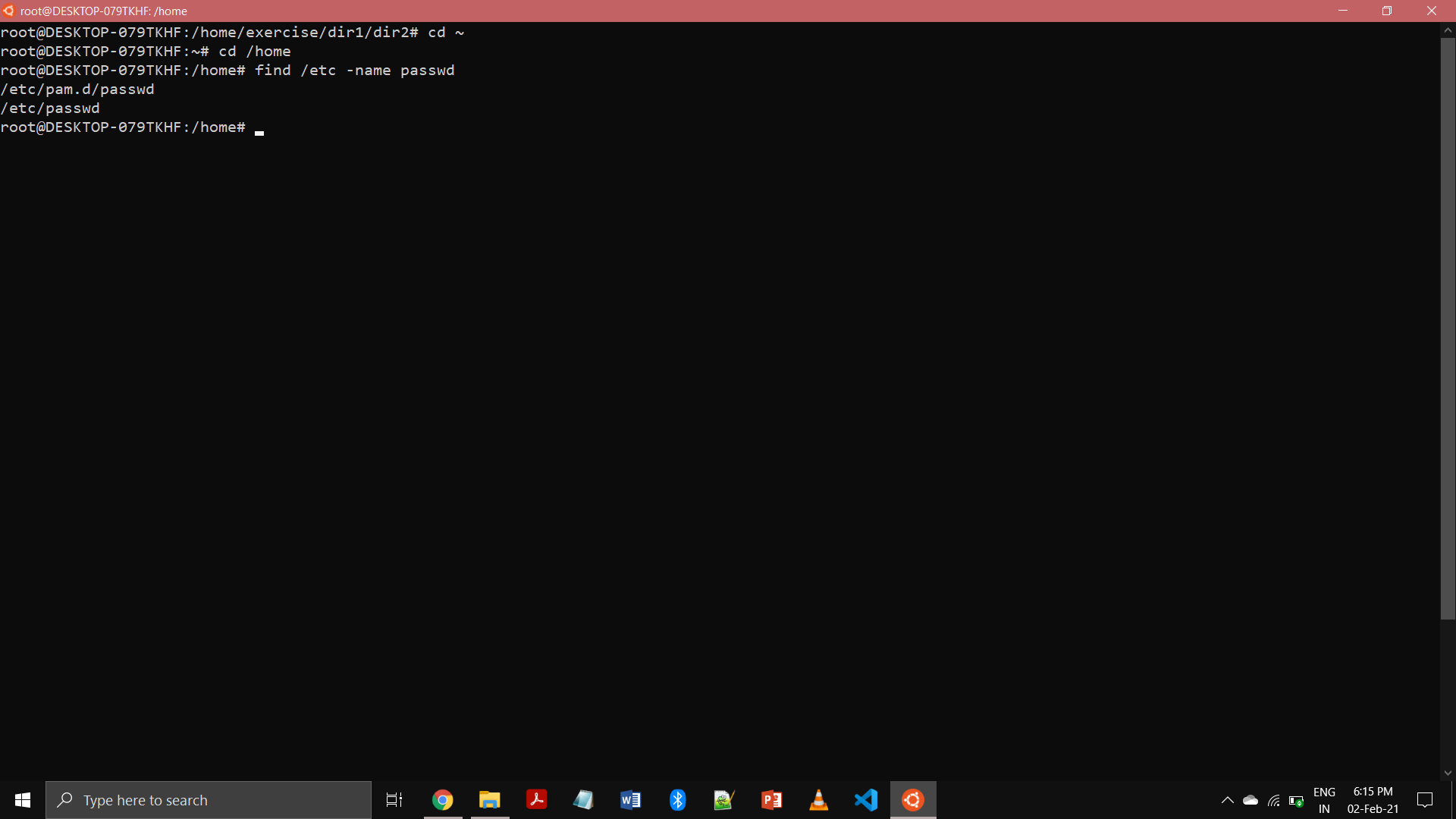


3. Create one file file1.txt containing text "hello world" and save it.

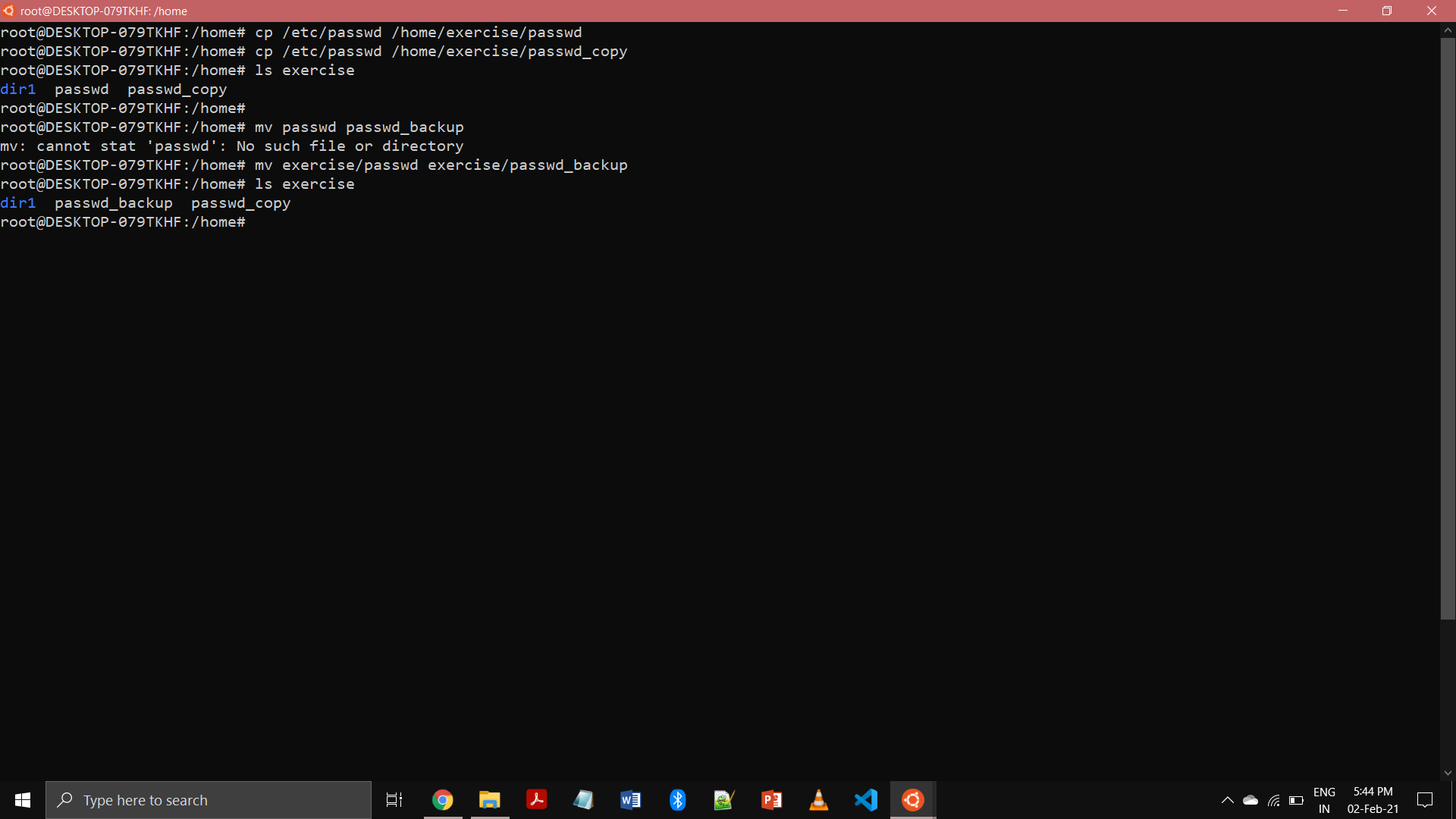


4. Find a "passwd" file using find command inside /etc. copy this file as passwd\_copy and then rename this file as passwd\_backup.

root@DESKTOP-079TKHF:/home# find /etc -name passwd

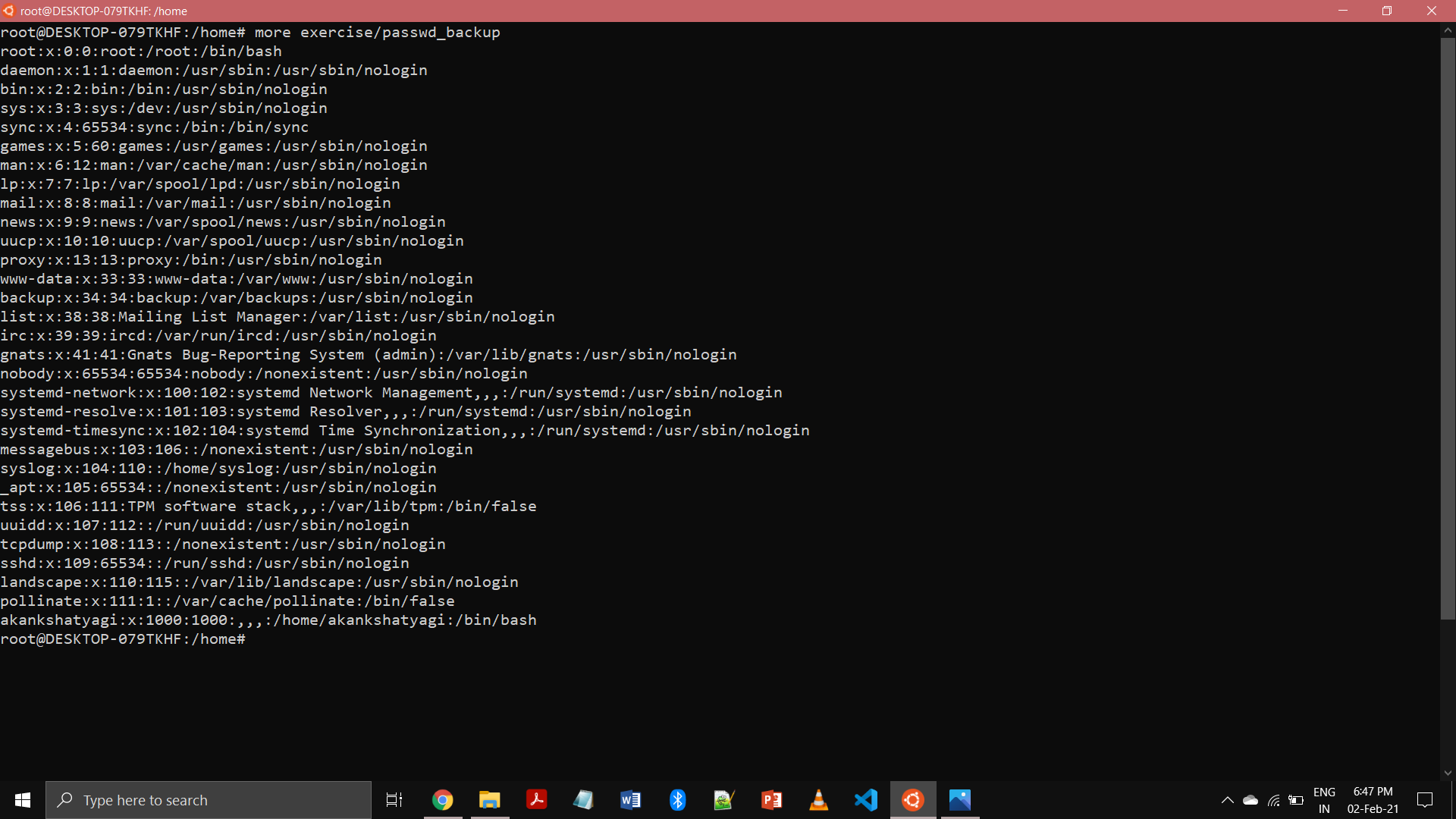


root@DESKTOP-079TKHF:/home# cp /etc/passwd /home/exercise/passwd1

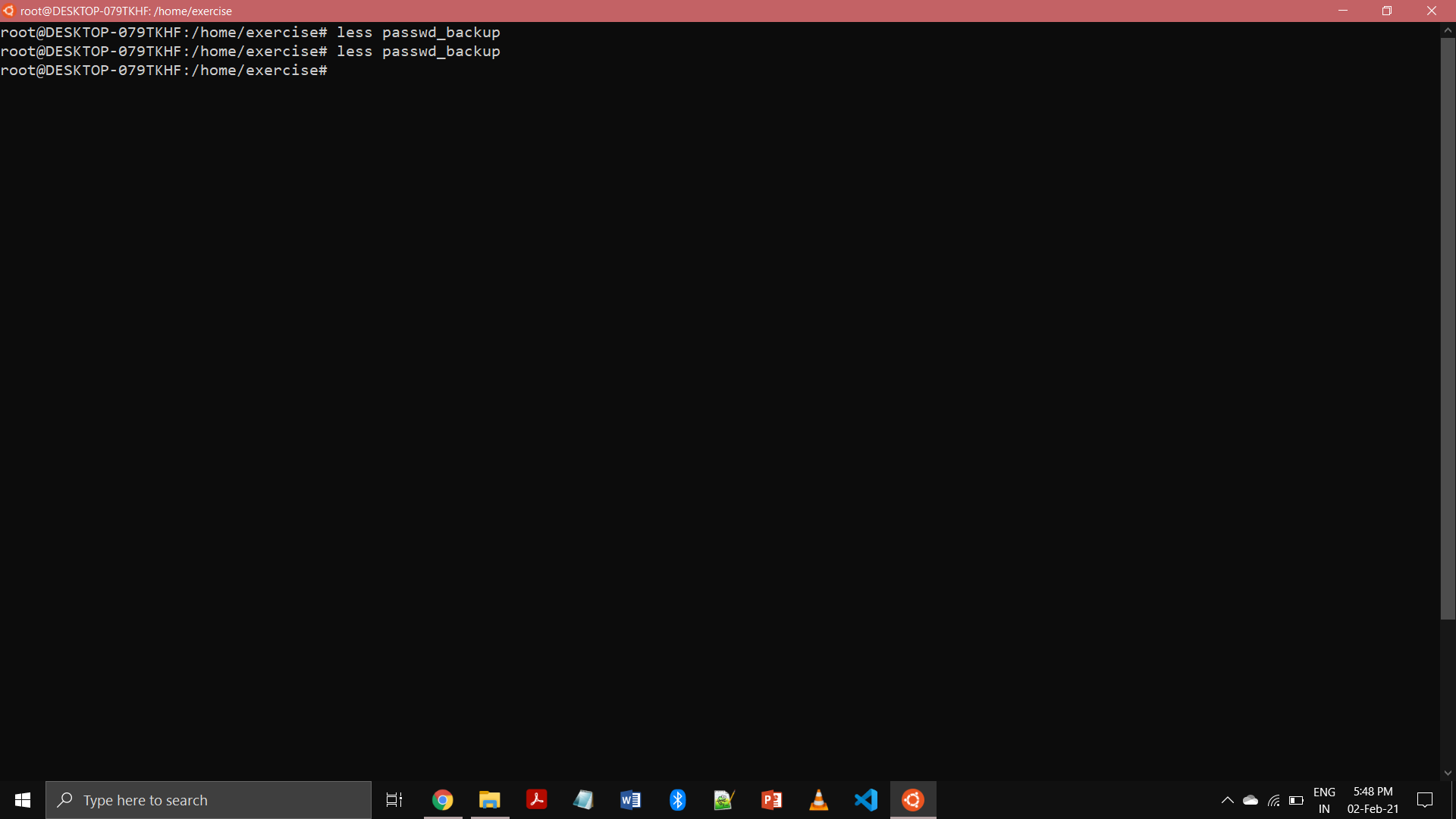


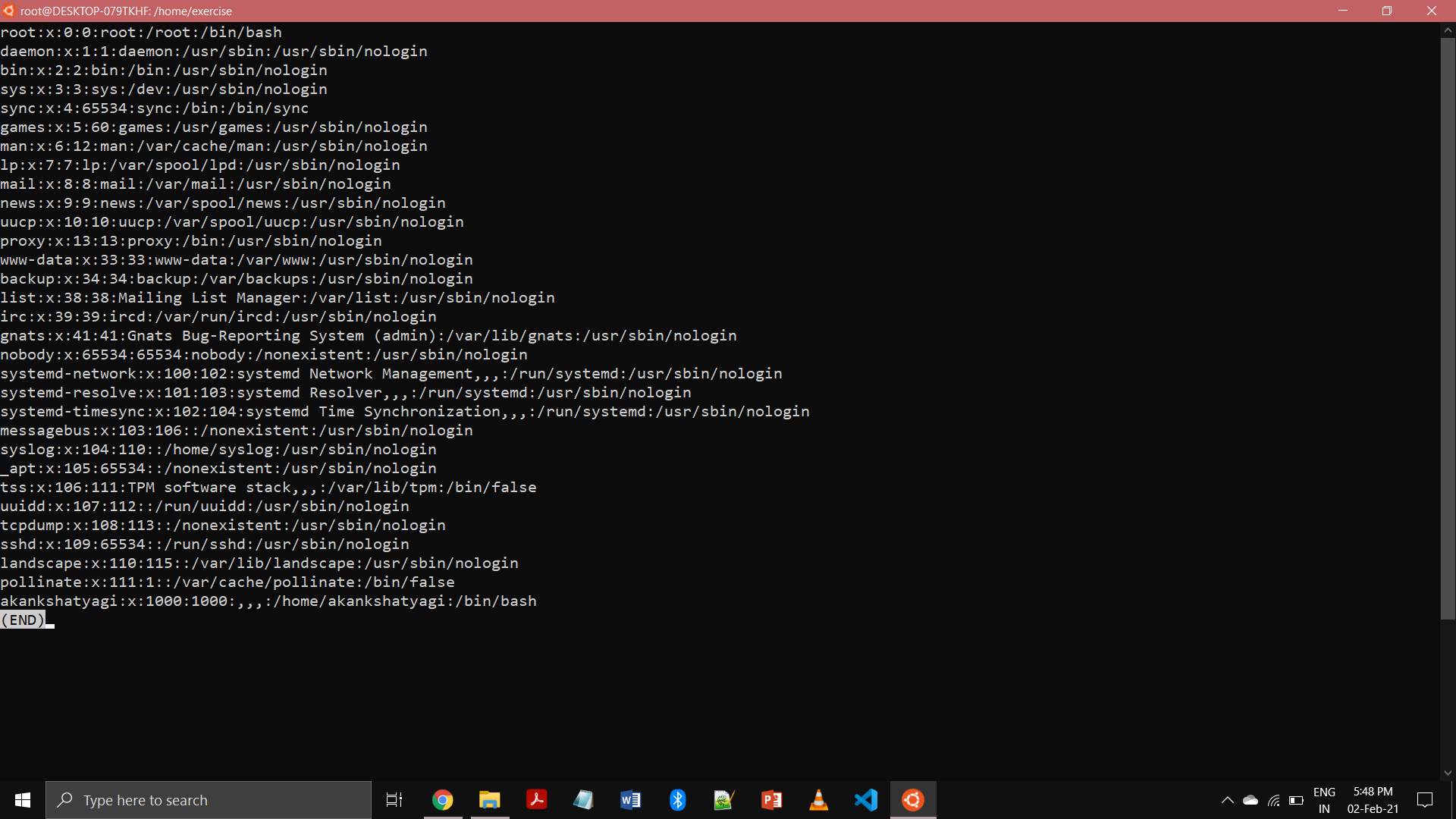
5. Try reading passwd\_backup file in multiple tools: less,more,cat,strings etc and find the difference in their usage.

i. Command: more exercise/passwd\_backup

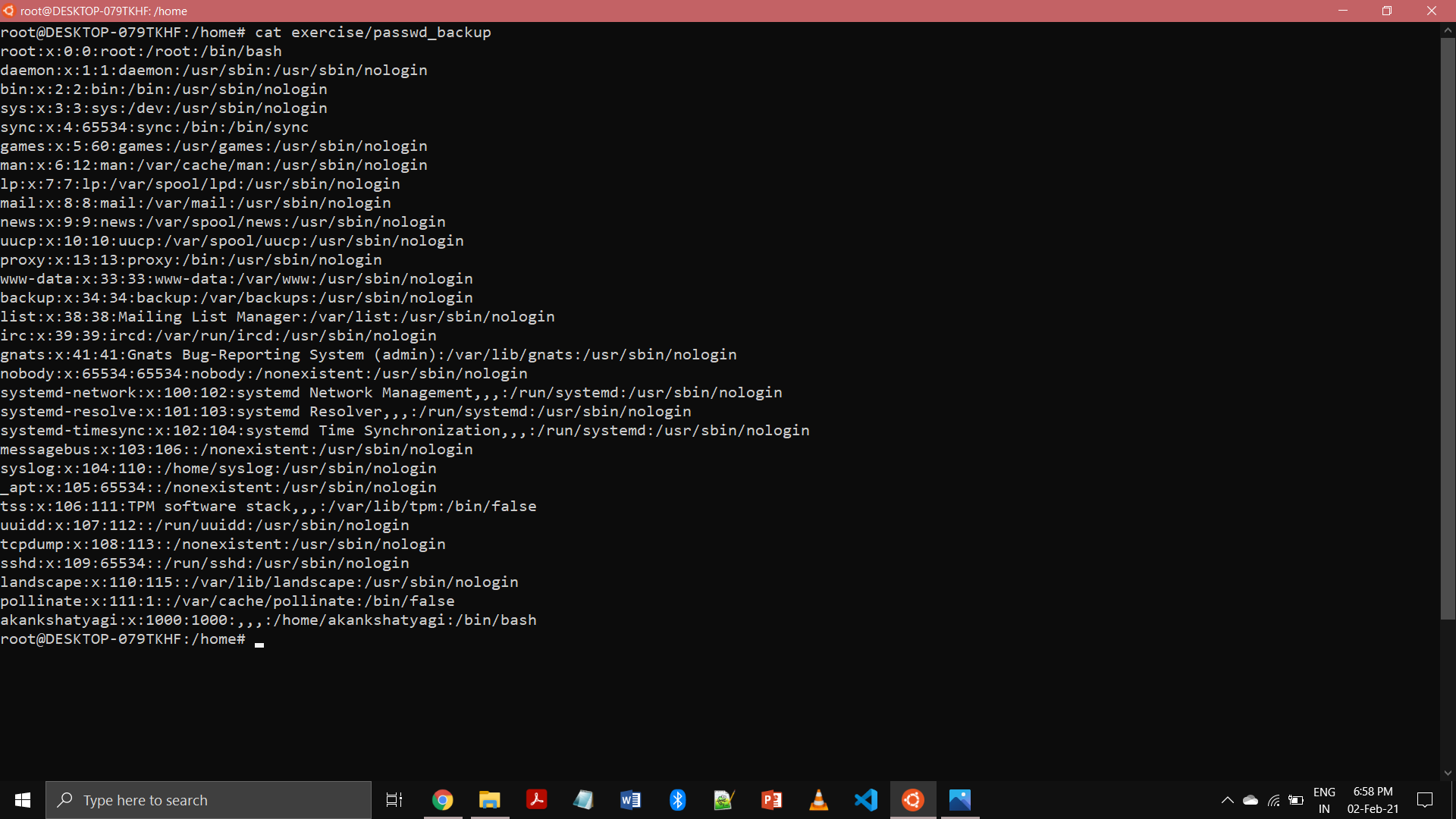


ii. command: less exercise/passwd\_backup

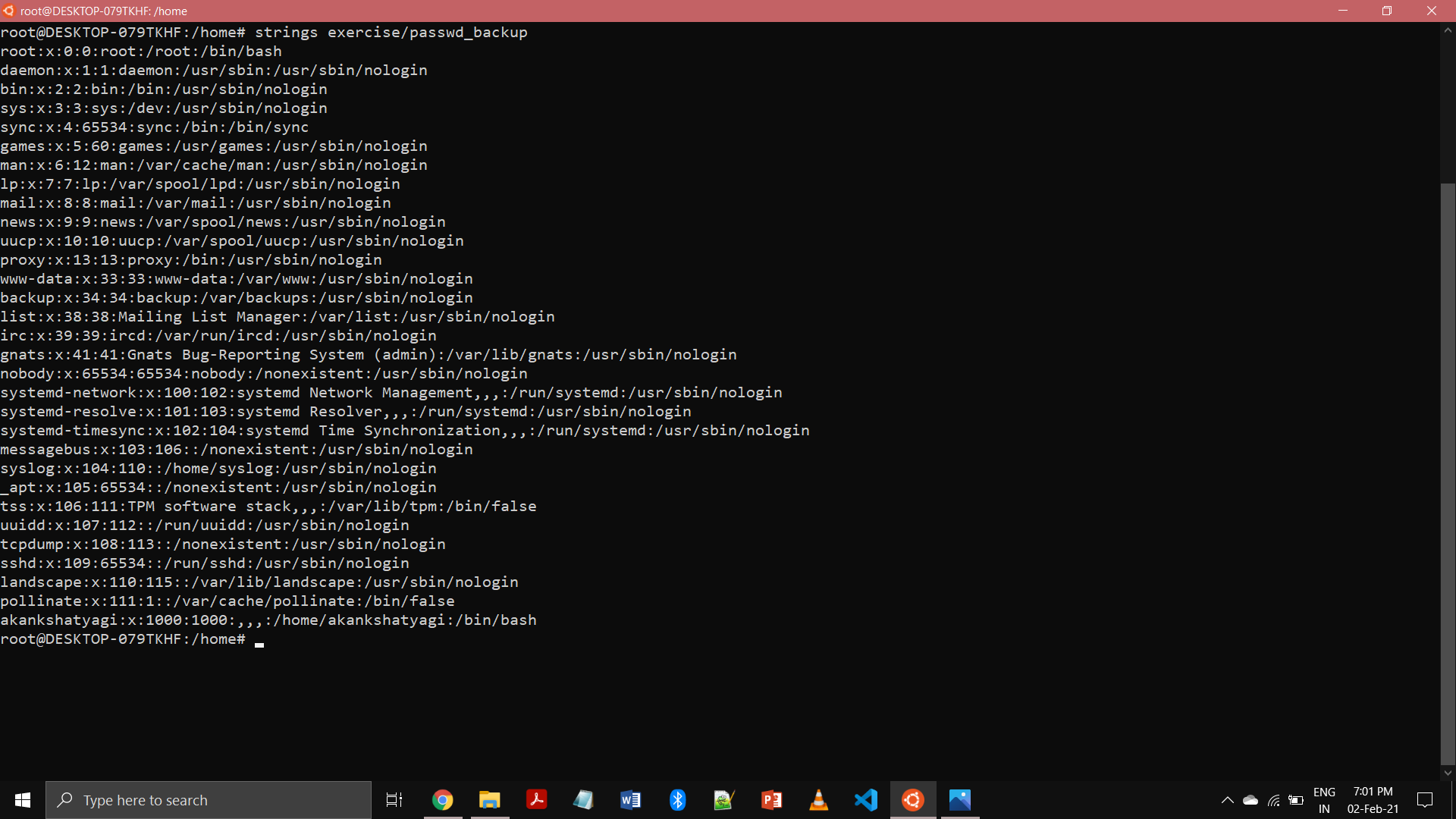




iii. command:: cat exercise/passwd

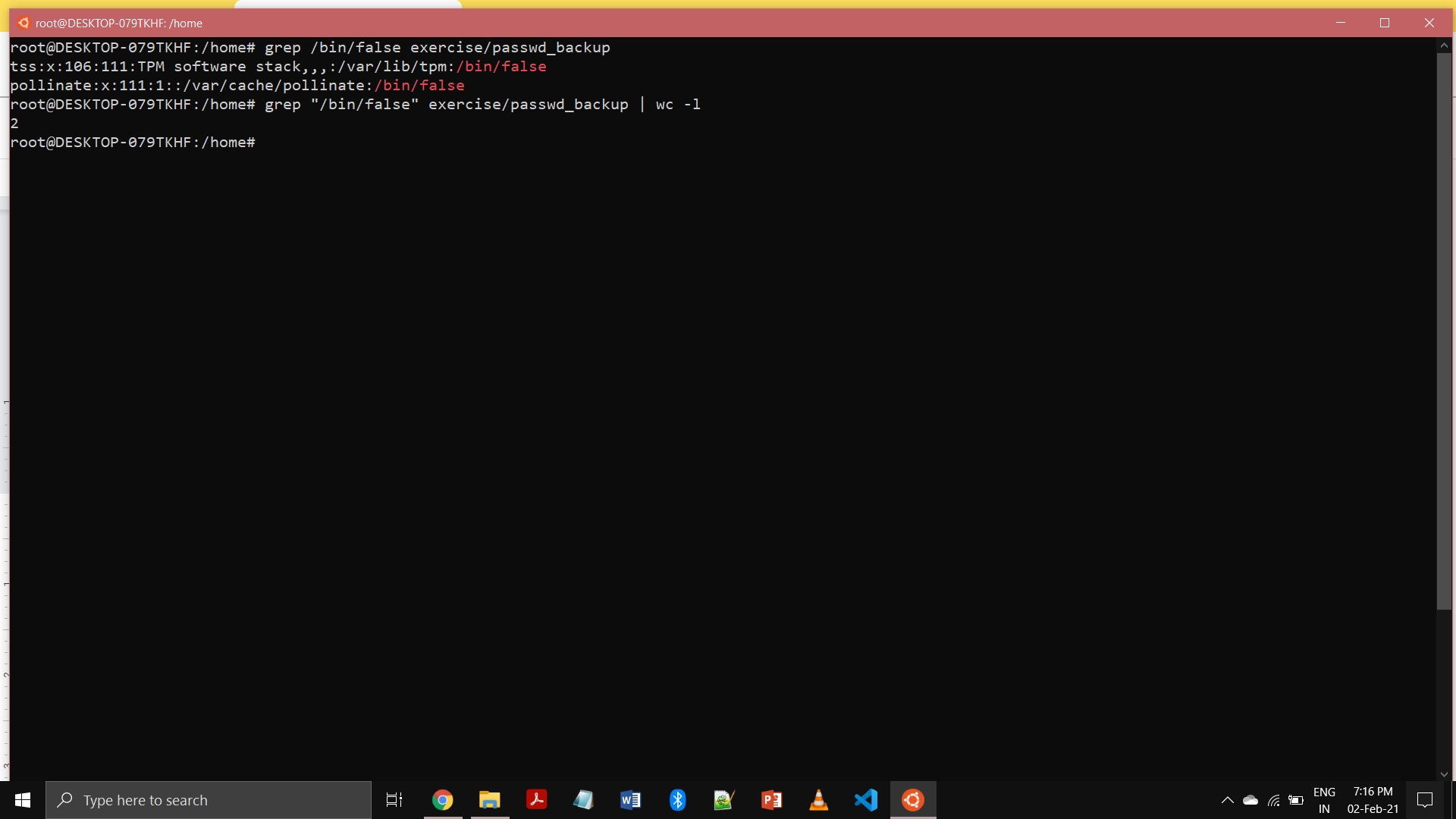


iv. command:: strings exercise/passwd\_backup ::

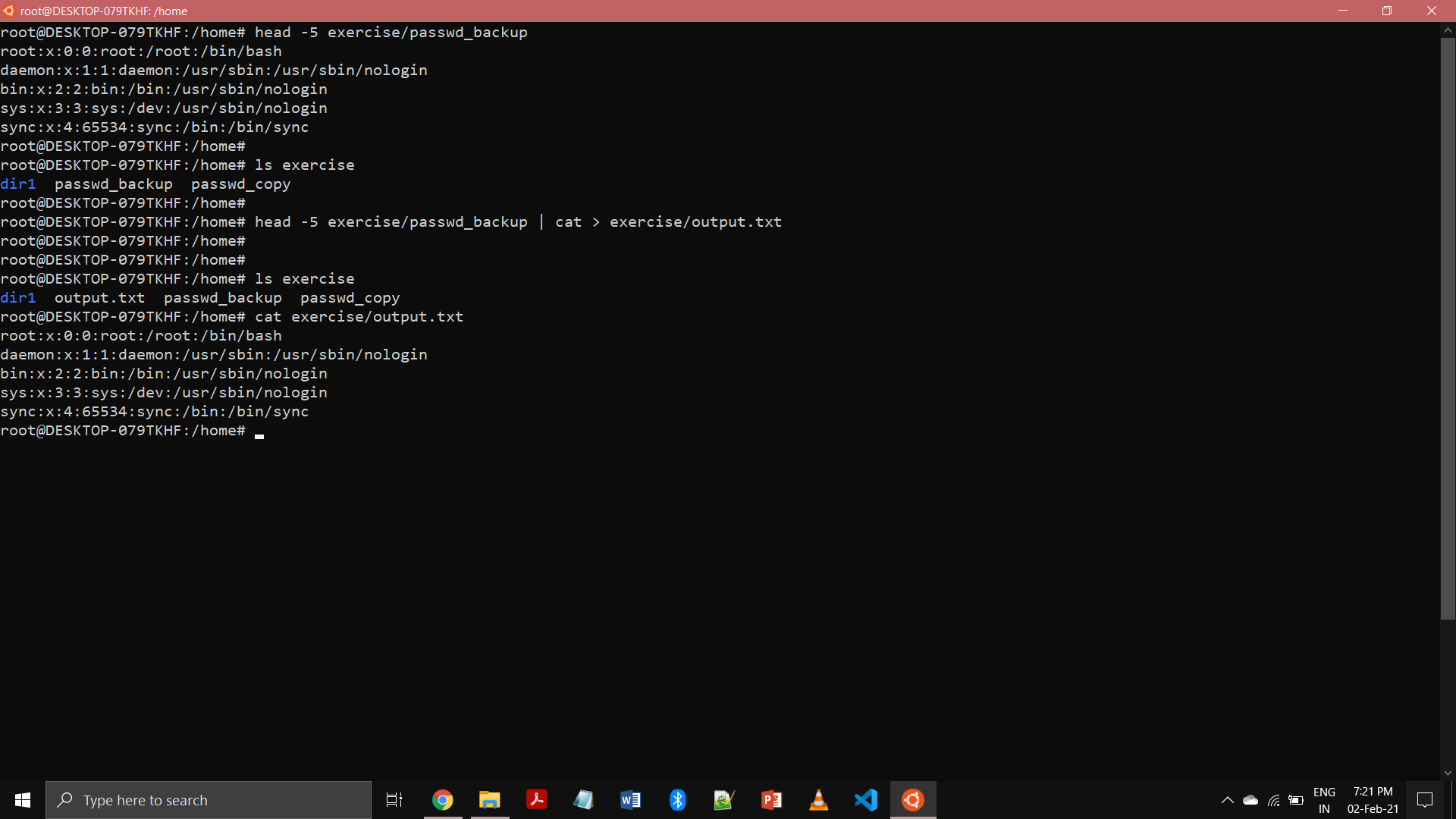


6. Find out the number of lines in password\_backup containing "/bin/false"

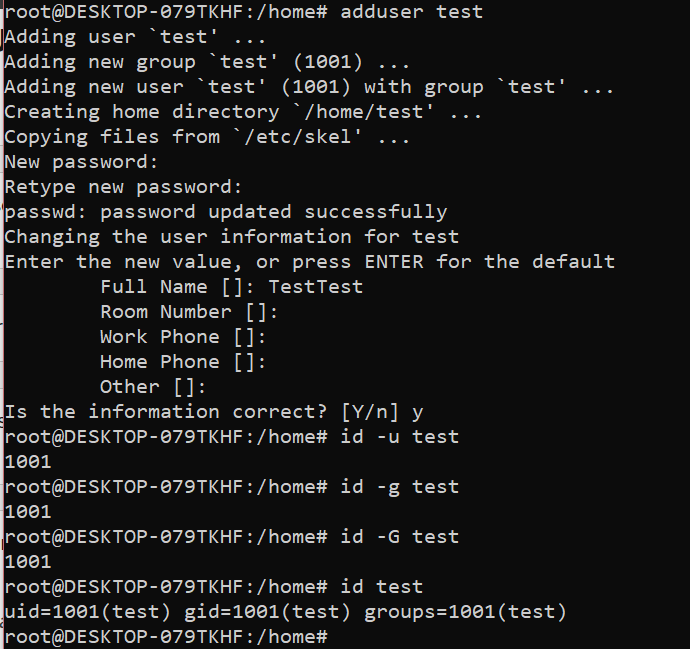
command: grep /bin/false exercise/passwd\_backup

.

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

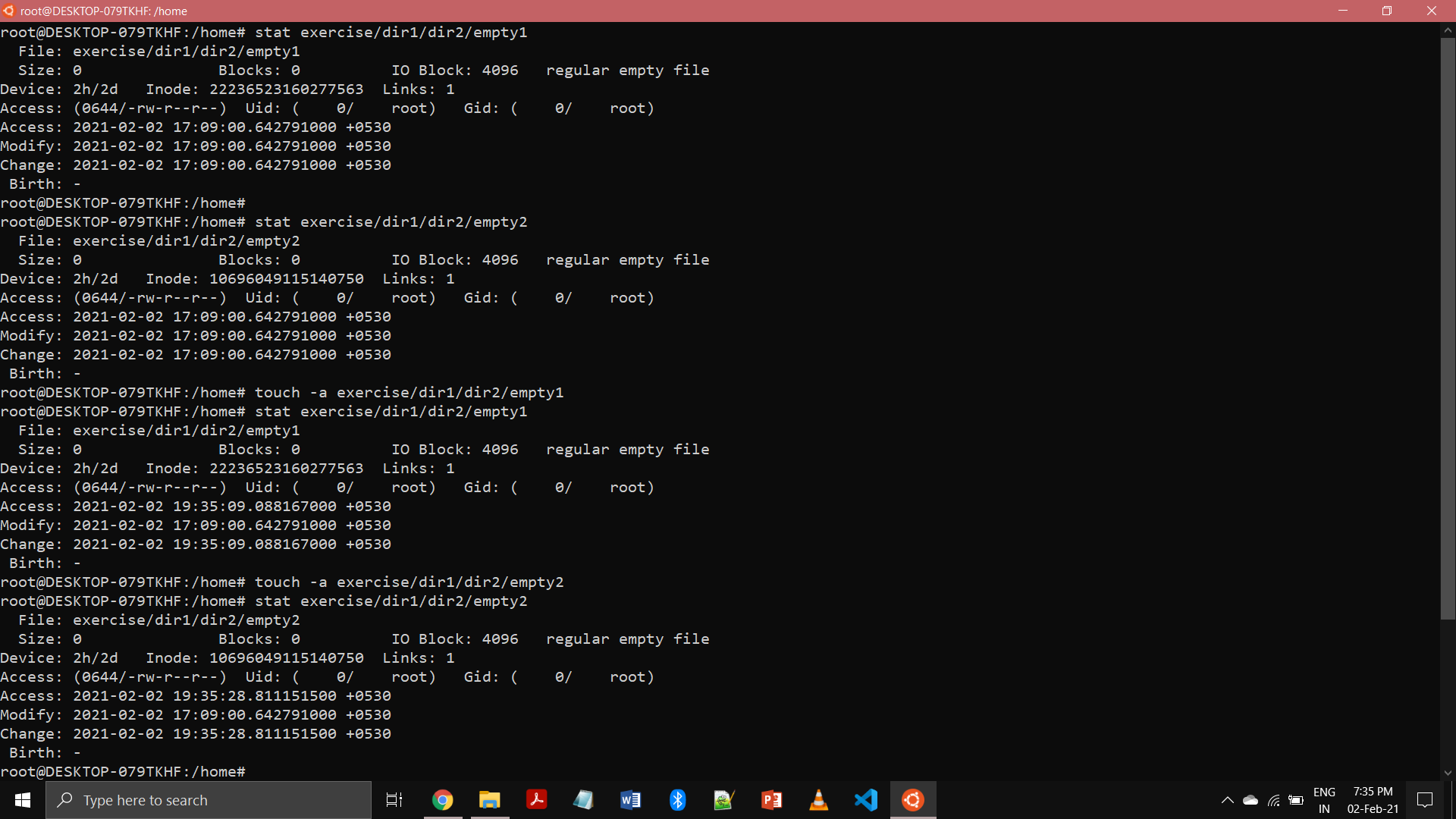


8. Create a "test" user,create its password and find out its uid and gid.

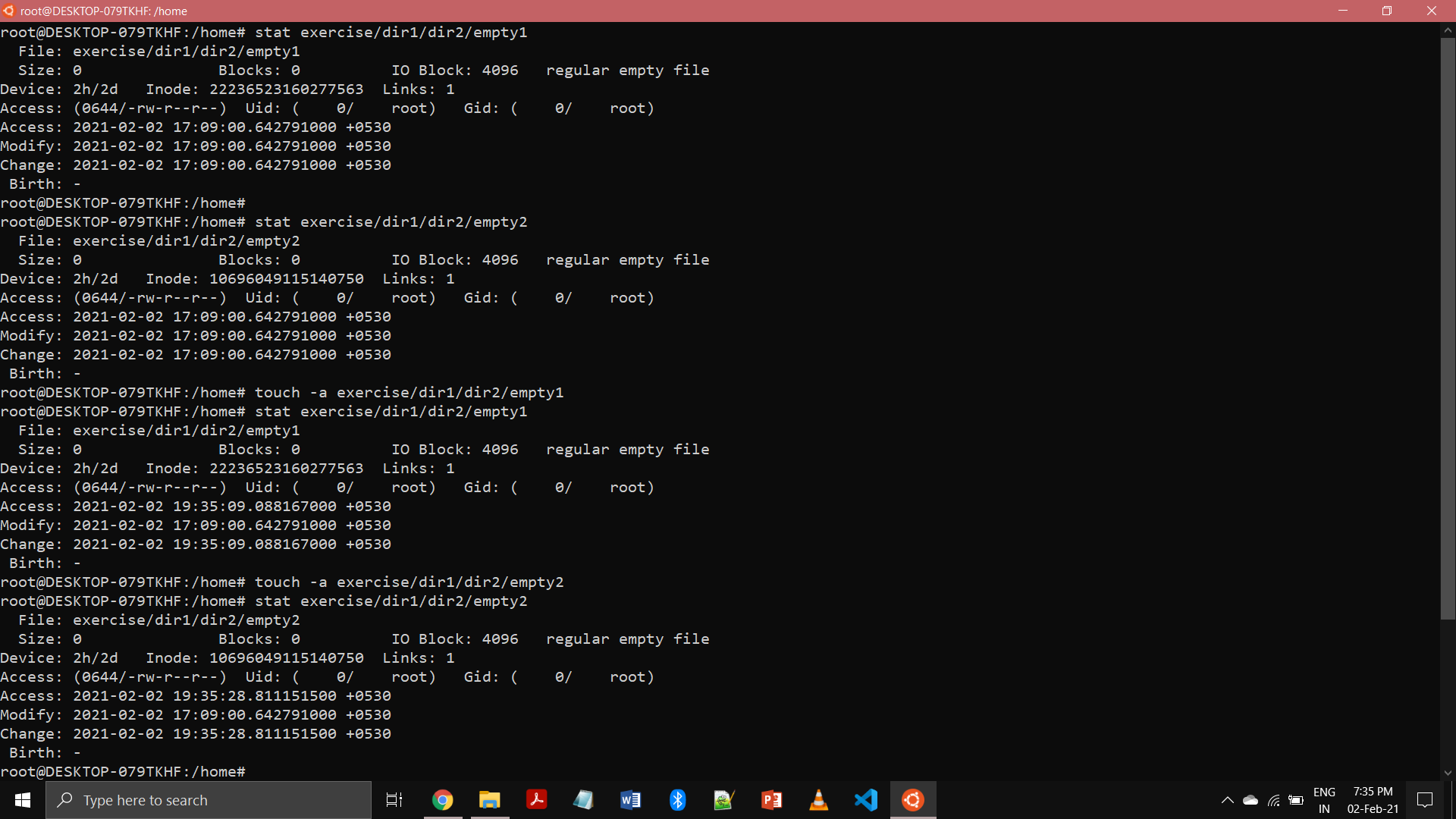


9. Change the timestamp of emptyFile1,emptyFile2 which exist in dir2.

Before timestamp is changed::

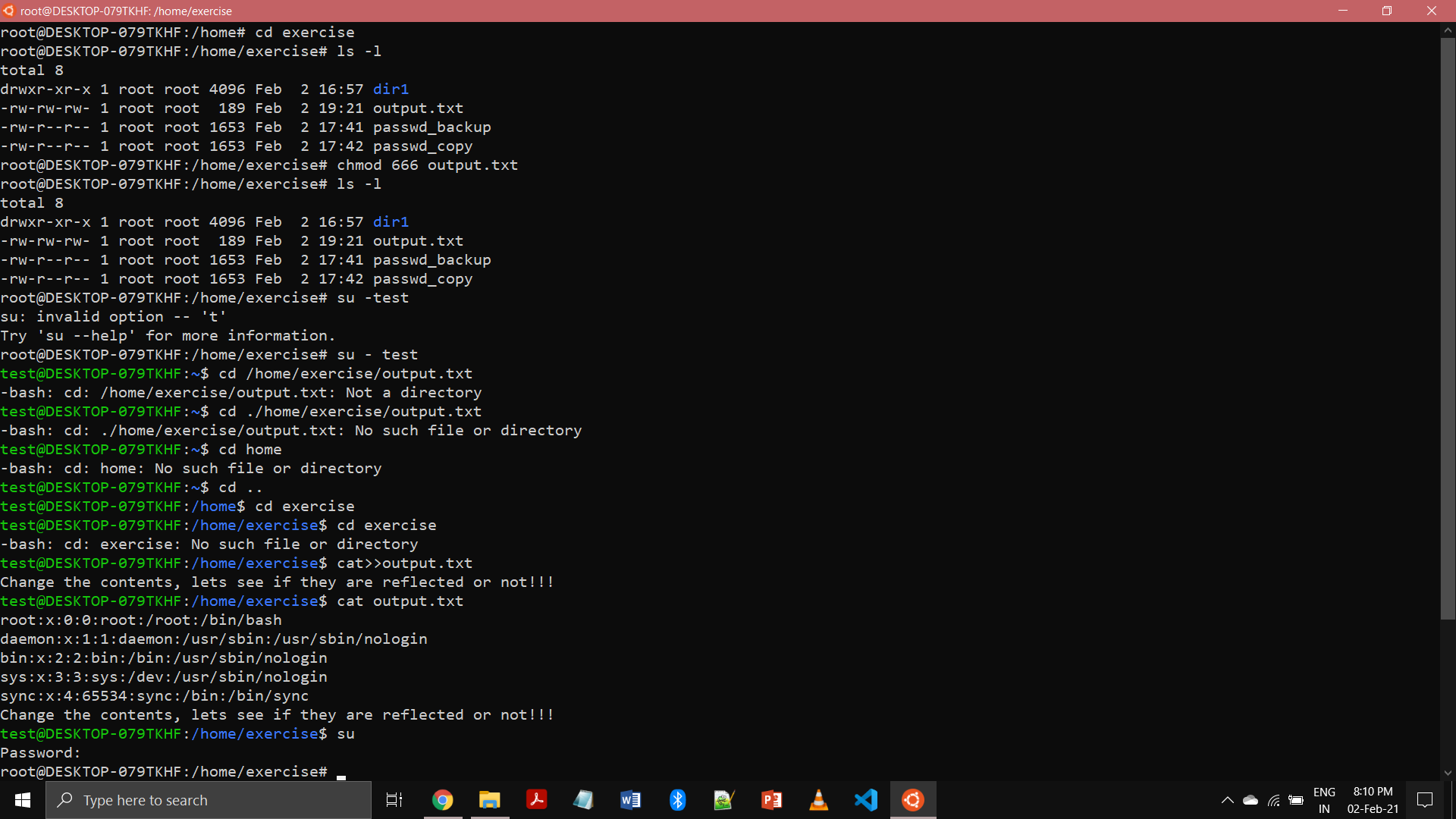


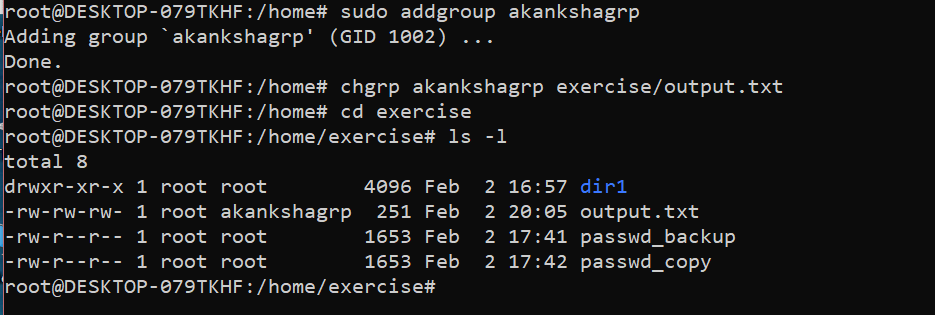
After timestamp is changed ::

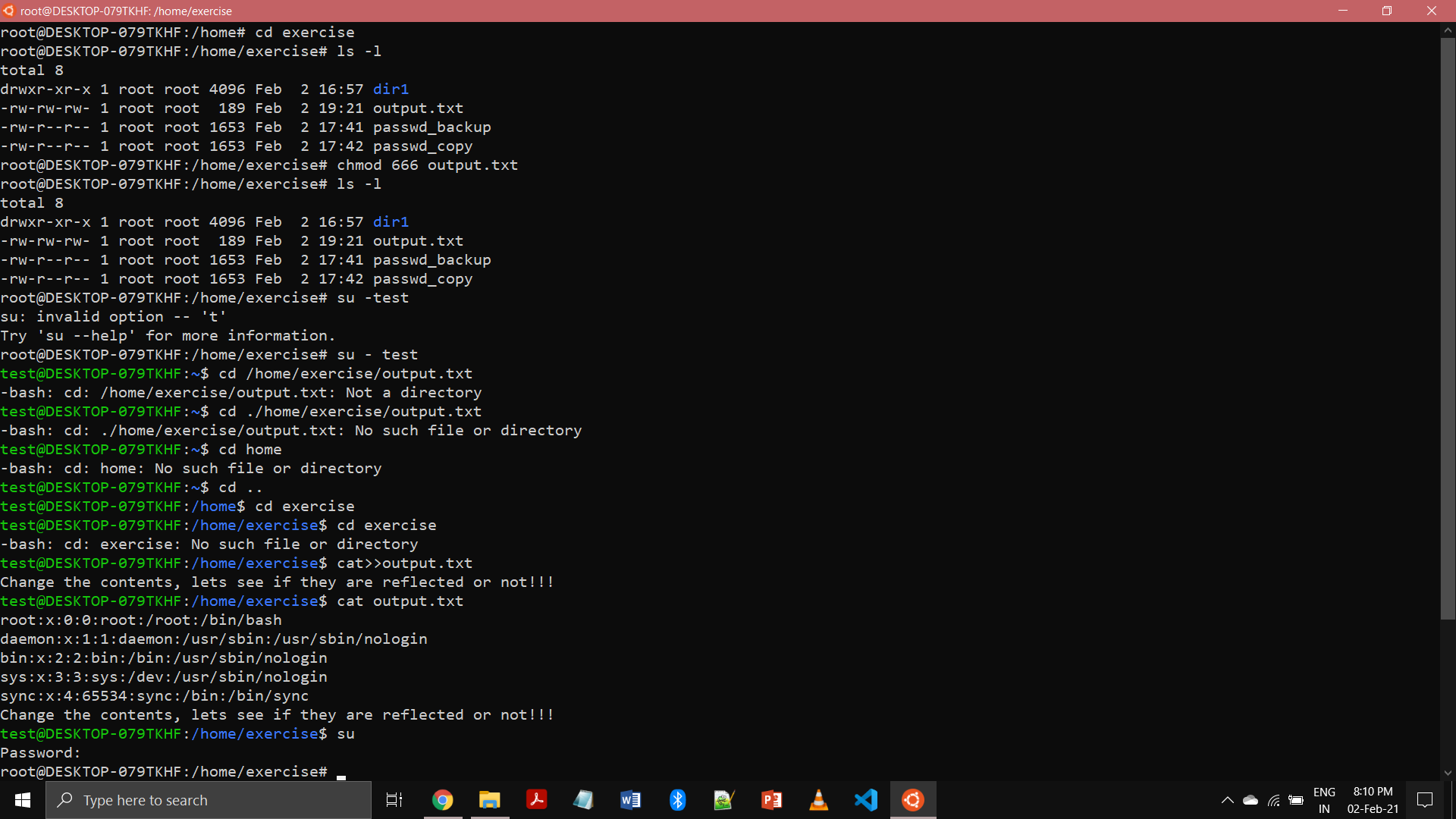


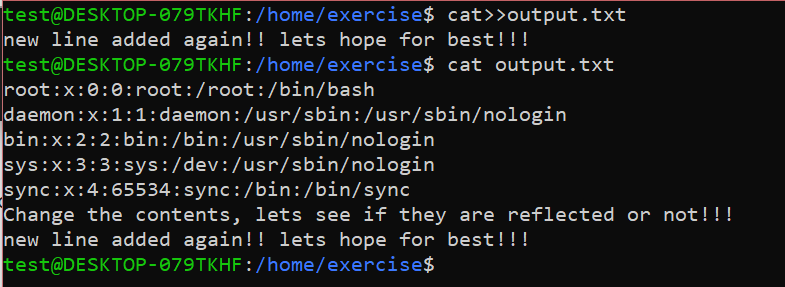
10. Login as test user and edit the "output" file created above. Since the permission wont allow you to save the changes. Configure such that test user can edit it.

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.

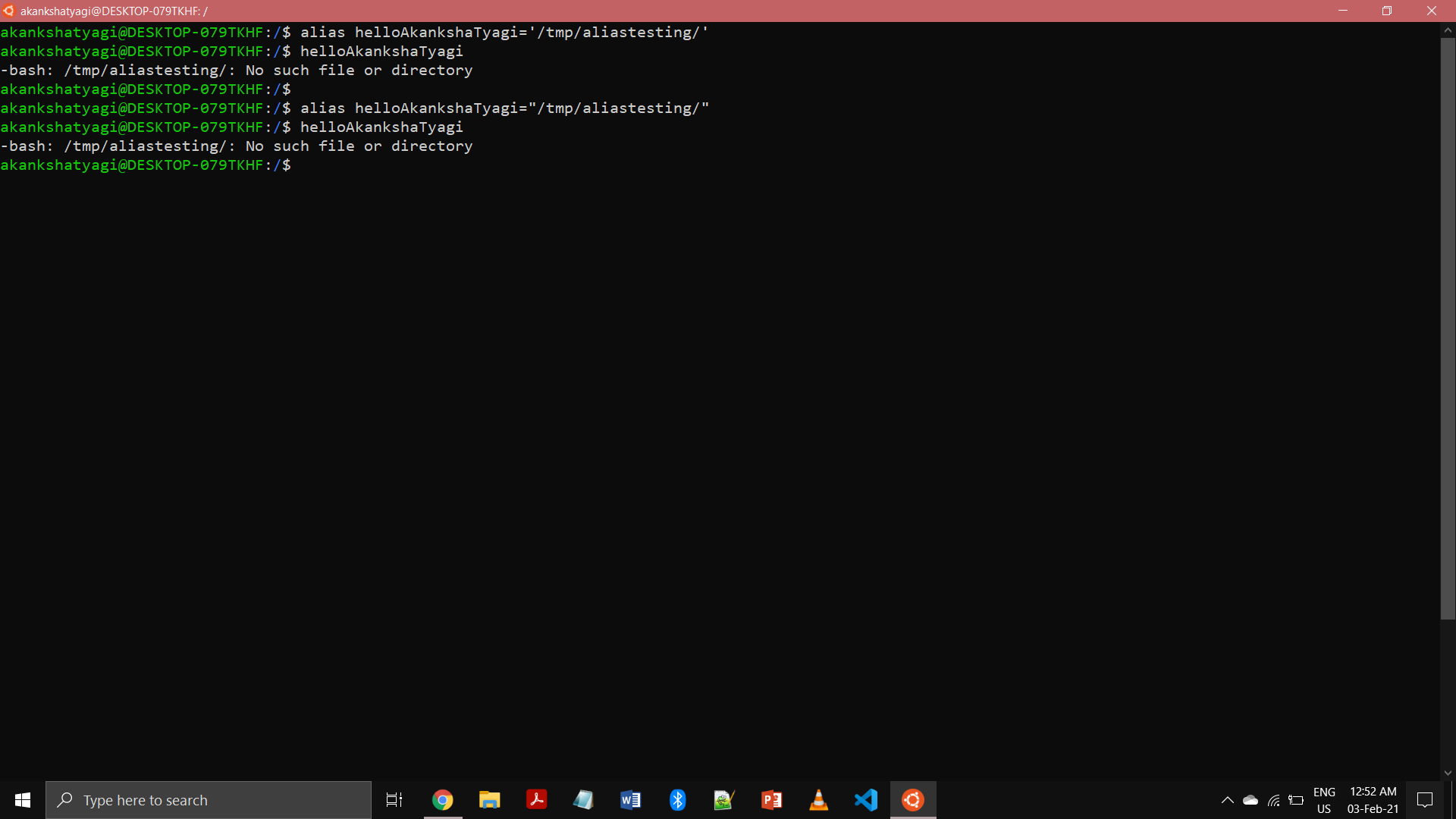






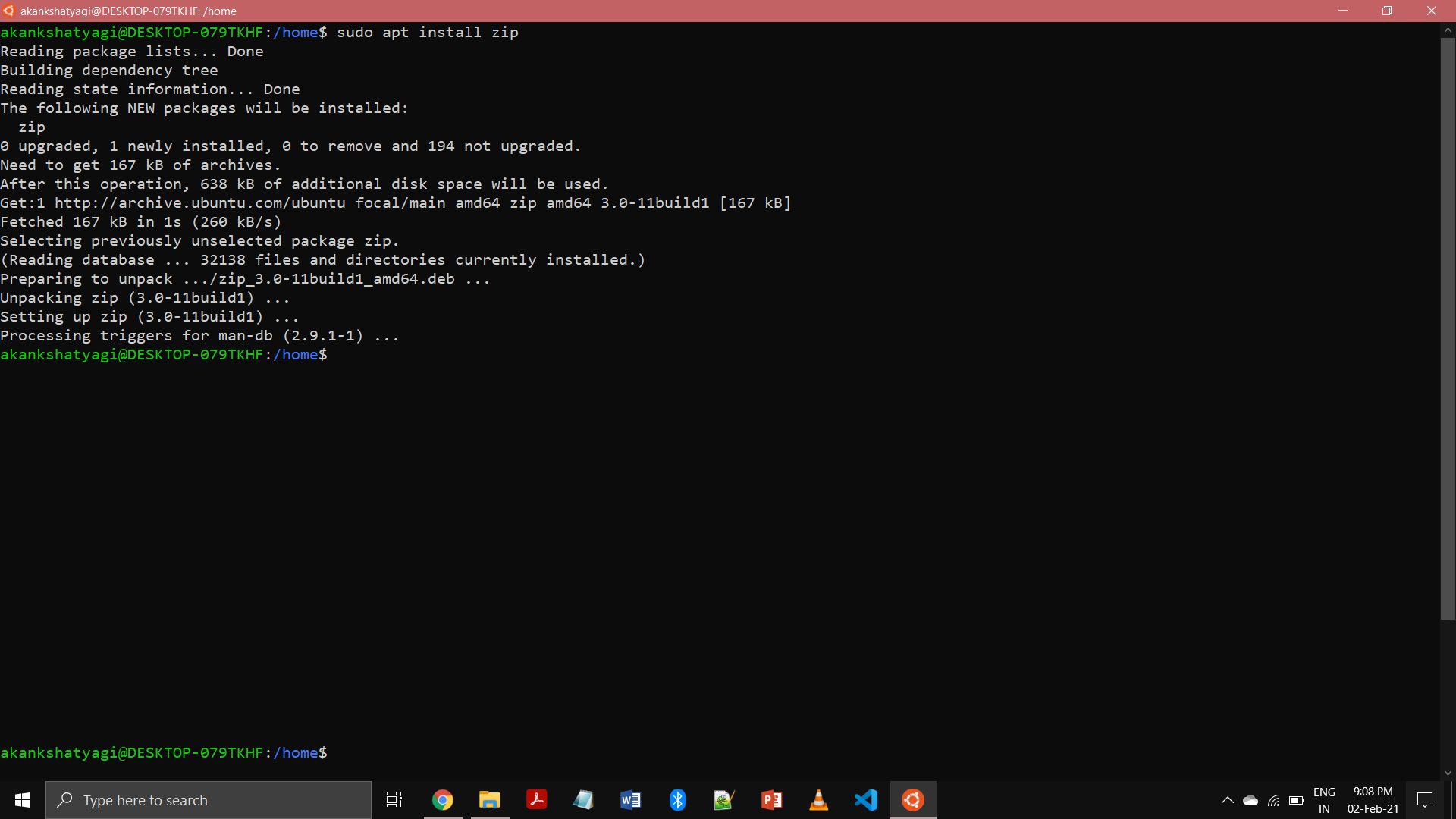


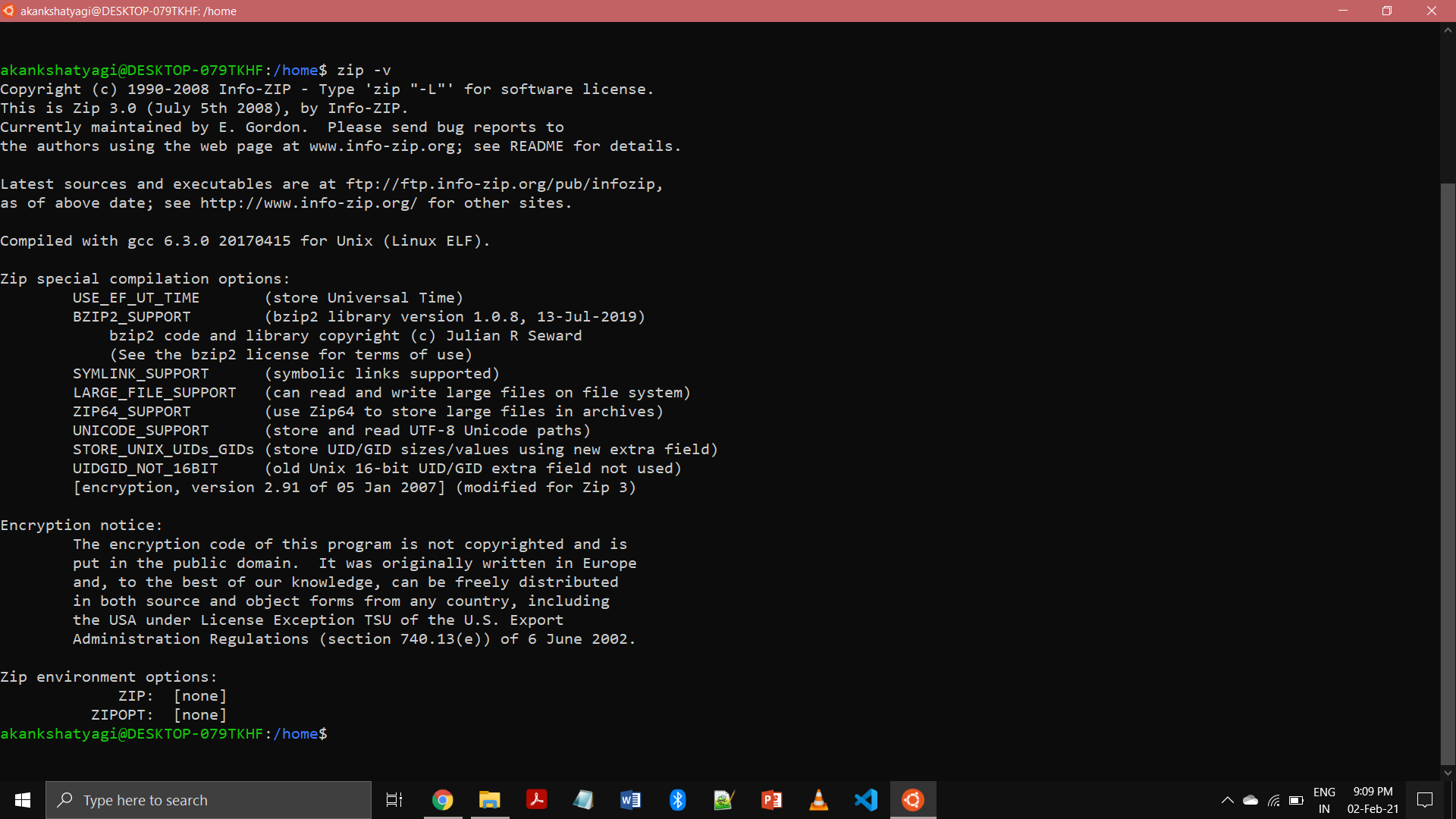
11. Create and alias with your name so that it creates a file as "/tmp/aliastesting".



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

13. Install “zip” package.

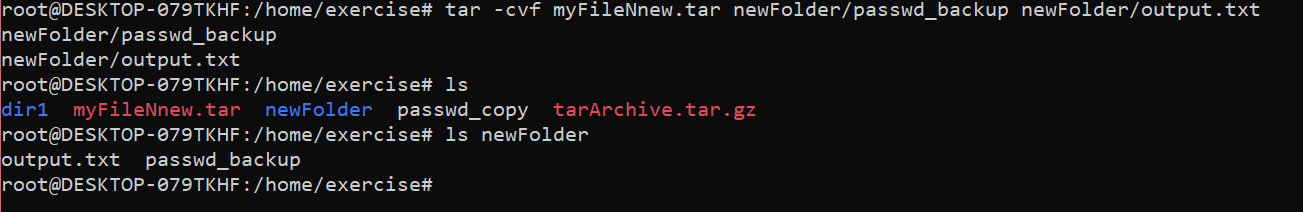




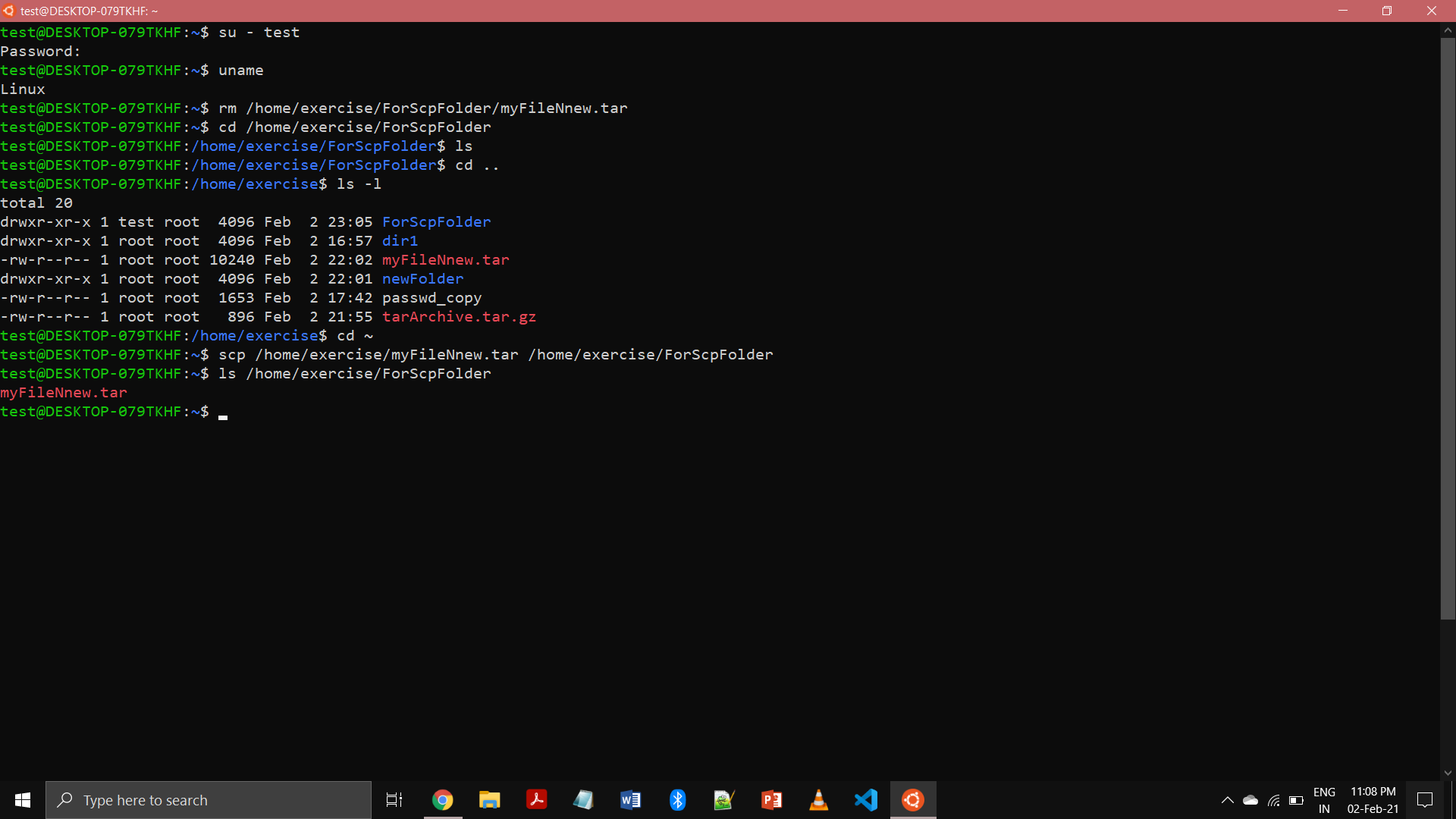
14. Compress "output" and "password\_backup" files into a tar ball. List the files present inside the tar created.

Using tar command

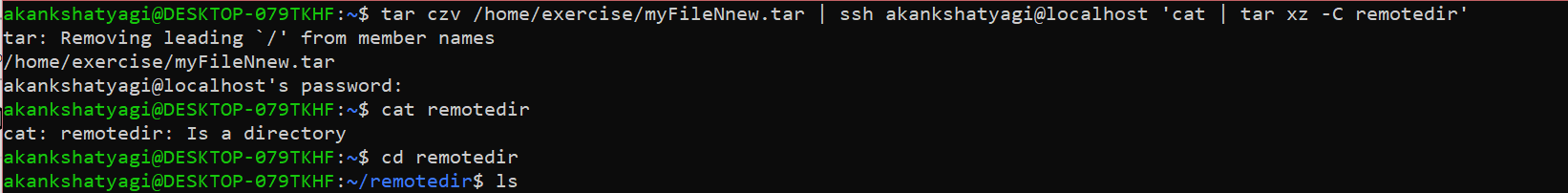
Output.txt and passwd\_backup are in newfolder



15. scp this file to test user



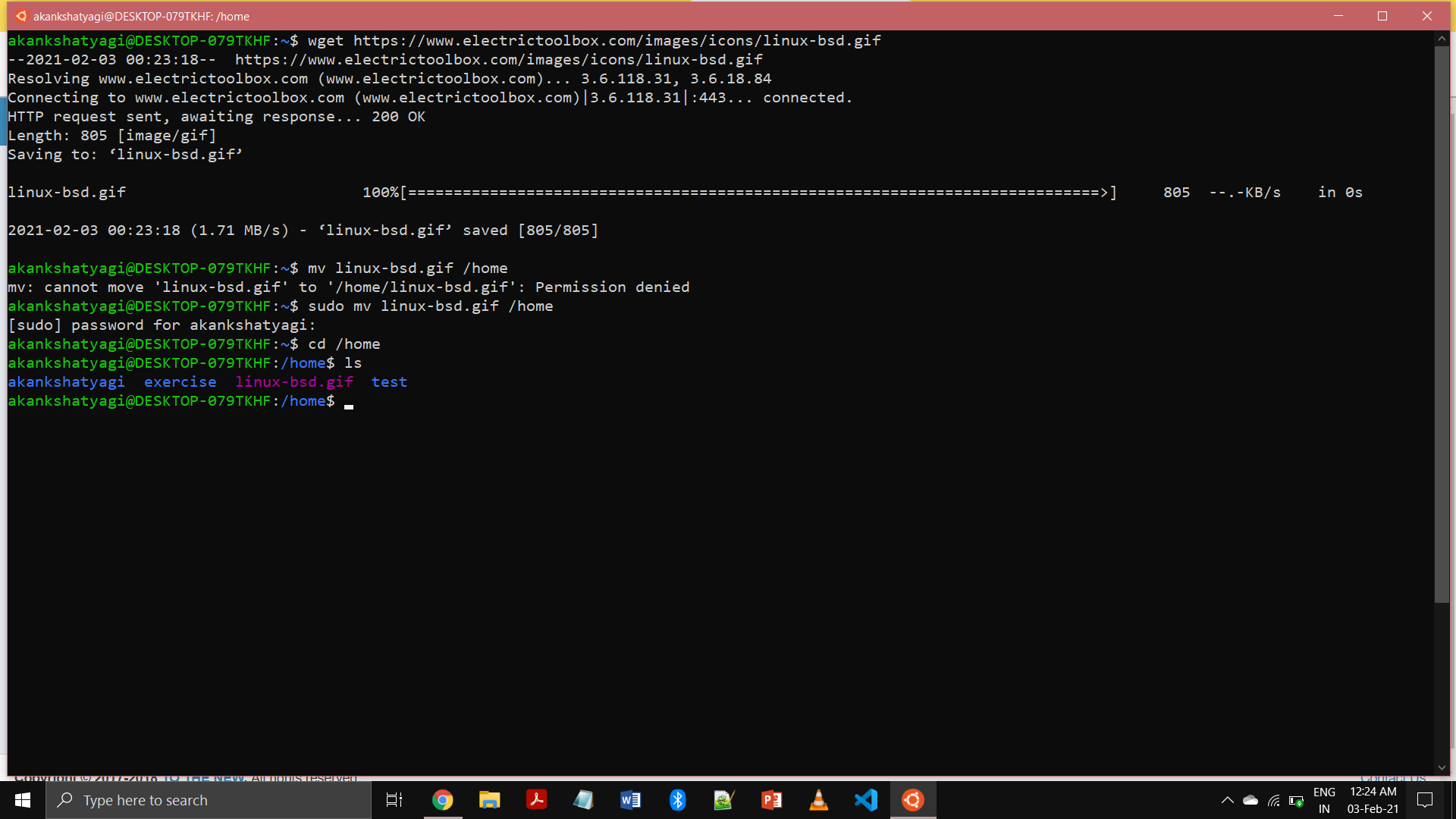
16. Unzip this tar bar by logging into the remote server

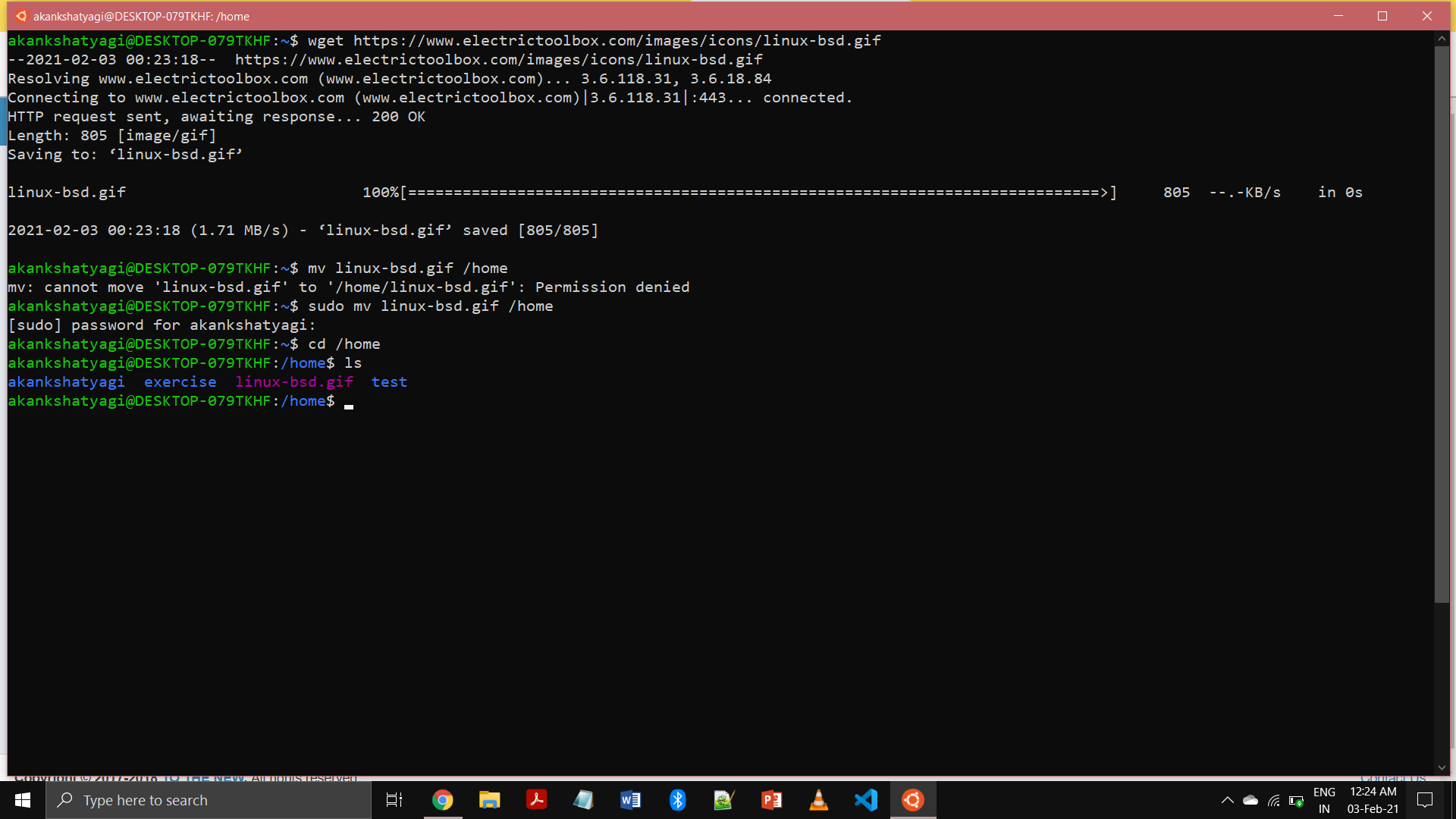






17. Download any image from web and move to desktop

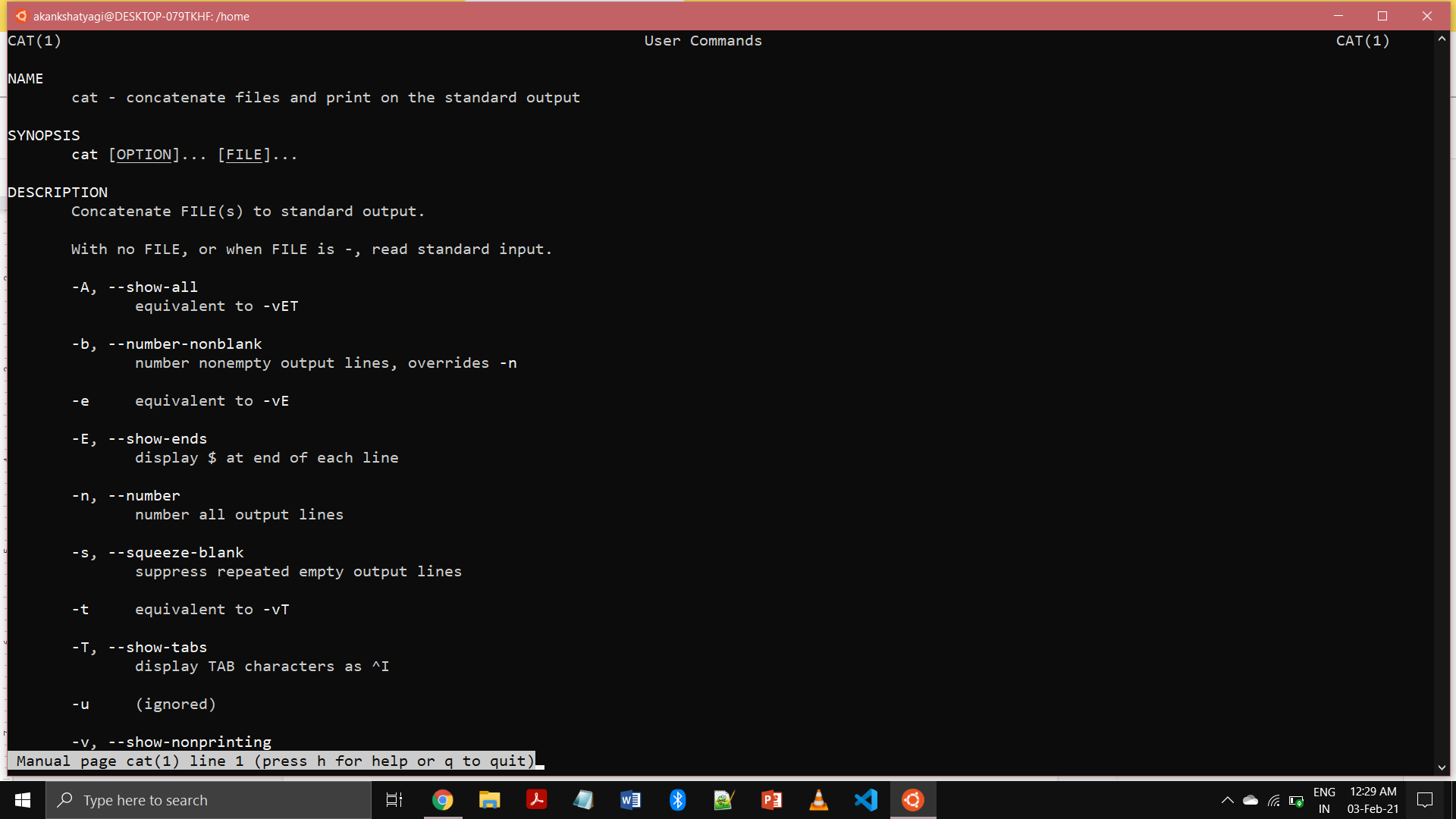




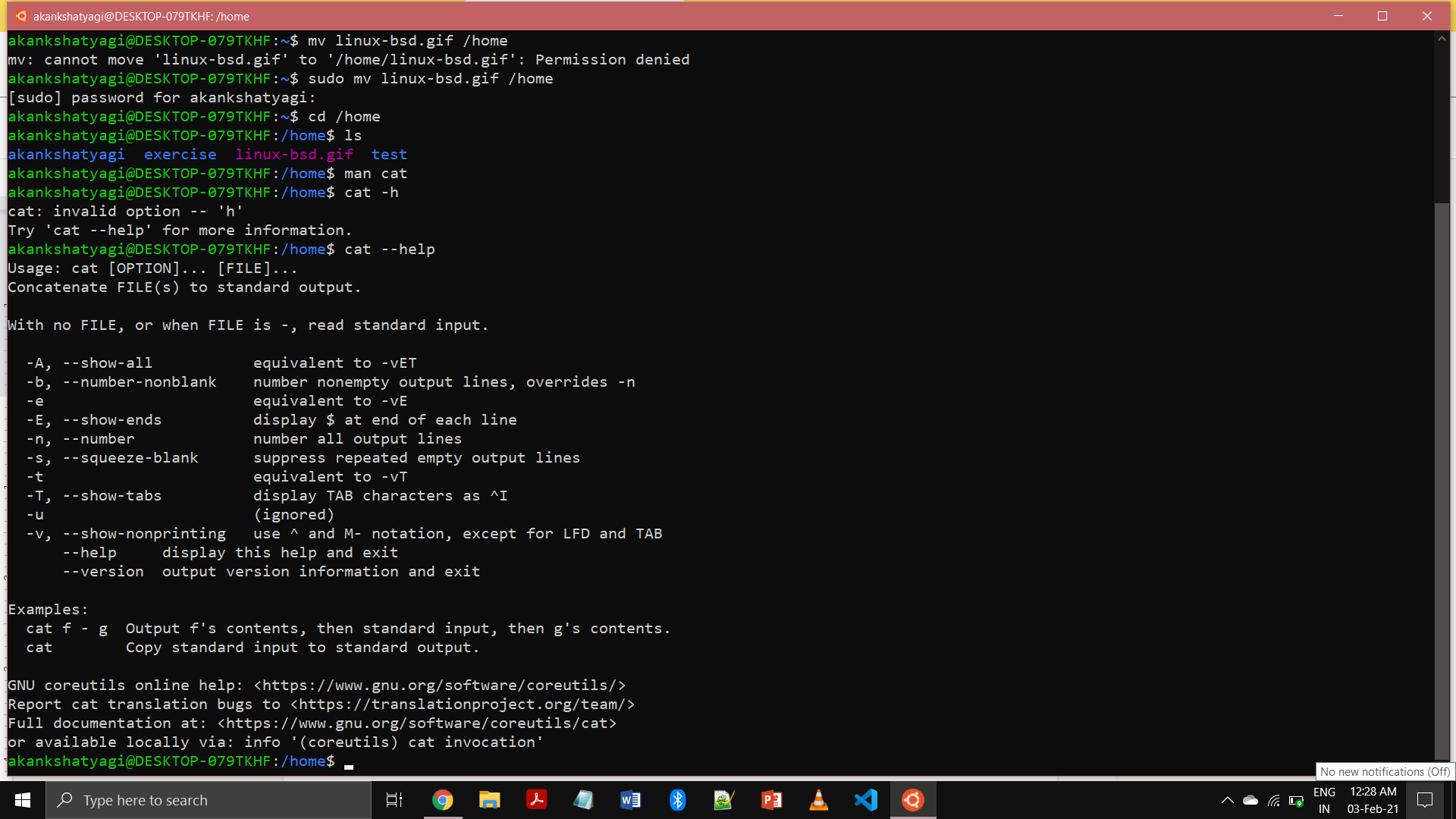
18. How to get help with command usages.

Using

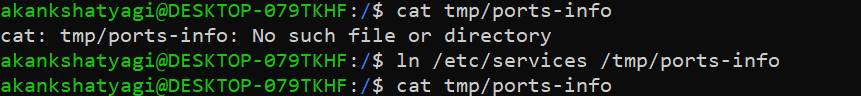
* man <command name>

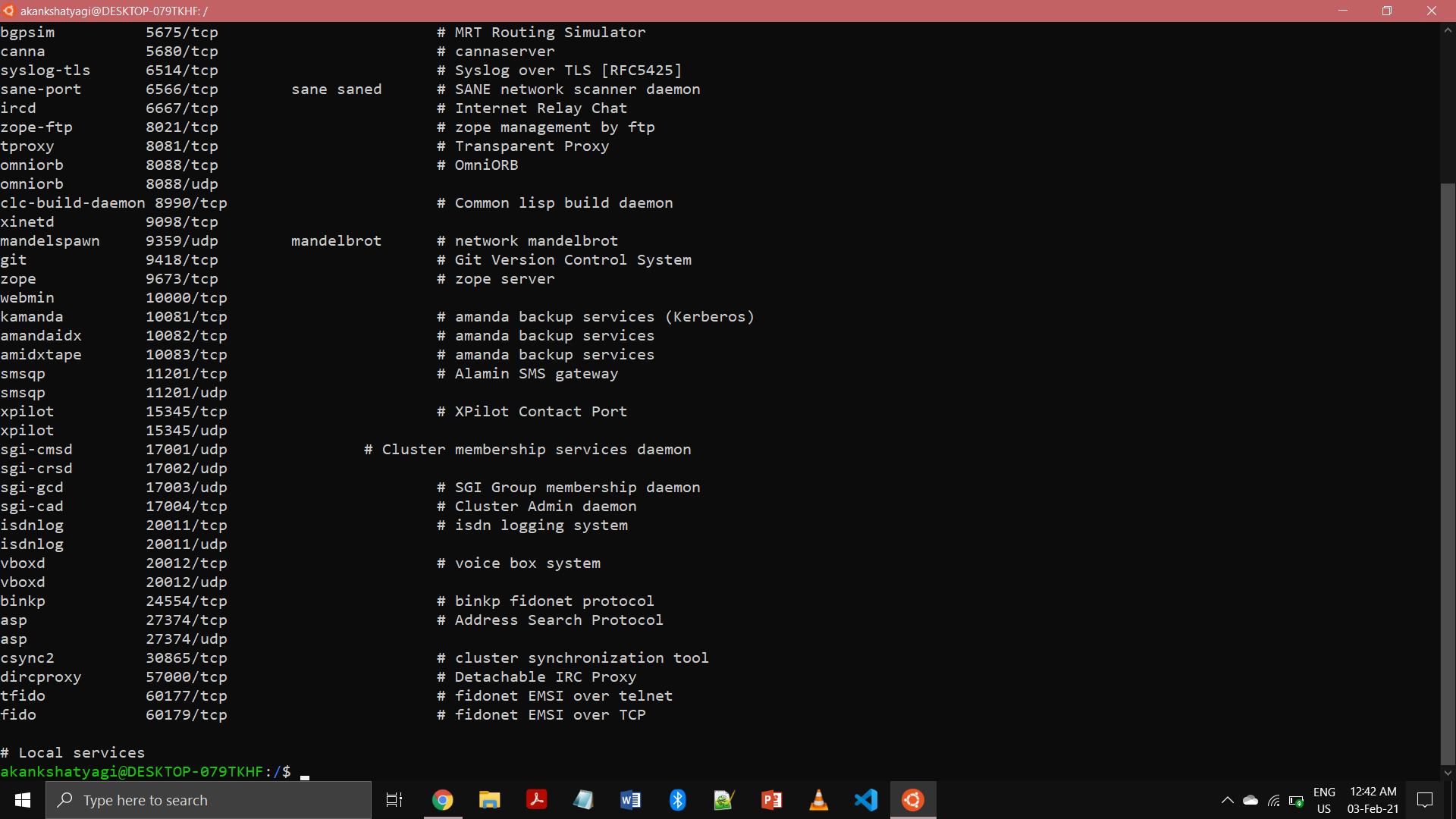


* <command name> --help



19. Create a symlink of /etc/services into /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?

By “whereis” command

