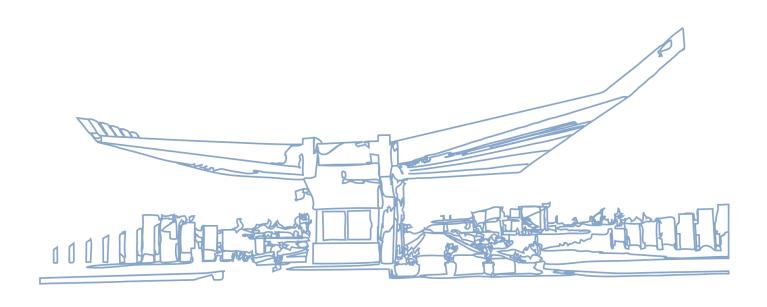


CEN 571 – Data Mining

Assignment 02- Question 1



PREPARED:

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19.04.2020Epoka University
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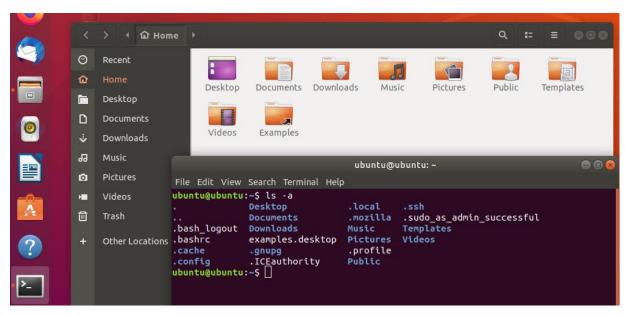
ACCEPTED:

Prof.Dr. Arben Asllani

Question 1

Basic Linux commands, implemented in Ubuntu.

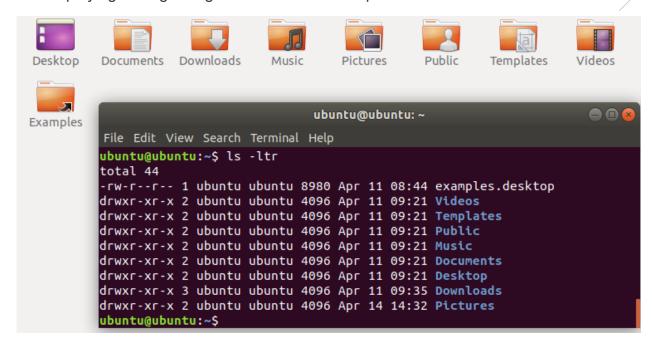
 Displaying all files and folders in the current directory Displays all files including hidden ones too.



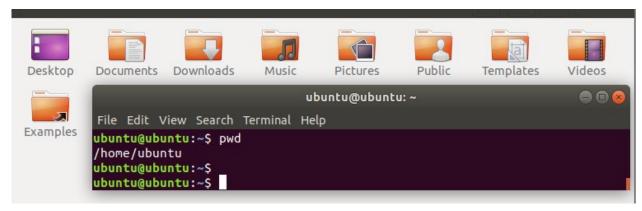
2. Displaying all files (optionally also the hidden too) along with size and time stamp.

```
Desktop
                                 Music
                                          Pictures
                                                      Public
                                                                           Videos
         Documents
                    Downloads
                                                               Templates
                                                                           ubuntu@ubuntu: ~
         File Edit View Search Terminal Help
Examples
       ubuntu@ubuntu:~$ ls -a -l
        total 92
        drwxr-xr-x 16 ubuntu ubuntu 4096 Apr 14 14:25 .
        drwxr-xr-x 3 root
                              root
                                     4096 Apr 11 08:44
                    1 ubuntu ubuntu 220 Apr 11 08:44 .bash_logout
                    1 ubuntu ubuntu 3771 Apr 11 08:44 .bashrc
         - CM- C-- C--
        drwx----- 15 ubuntu ubuntu 4096 Apr
                                              11 09:58 .cache
        drwx----- 14 ubuntu ubuntu 4096
                                         Арг
                                              11 09:58
                                                       .config
        drwxr-xr-x
                   2 ubuntu ubuntu 4096 Apr
                                              11 09:21 Desktop
        drwxr-xr-x
                    2 ubuntu ubuntu 4096 Apr
                                              11 09:21 Documents
        drwxr-xr-x 3 ubuntu ubuntu 4096 Apr
                                              11 09:35 Downloads
         - FW- F-- F--
                    1 ubuntu ubuntu 8980 Apr
                                              11 08:44 examples.desktop
                    3 ubuntu ubuntu 4096 Apr
                                              11 09:25 .gnupg
                   1 ubuntu ubuntu 636 Apr 14 14:25 .ICEauthority
        ldrwx----
                    3 ubuntu ubuntu 4096 Apr 11 09:21 .local
                    5 ubuntu ubuntu 4096 Apr
        ldrwx-----
                                              11 09:56 .mozilla
        drwxr-xr-x
                    2 ubuntu ubuntu 4096 Apr
                                              11 09:21 Music
                    2 ubuntu ubuntu 4096 Apr
                                              14 14:28 Pictures
        drwxr-xr-x
                      ubuntu ubuntu
                                     807
                                         Арг
                                              11 08:44 .profile
        drwxr-xr-x
                    2 ubuntu ubuntu 4096 Apr
                                              11 09:21 Public
                    2 ubuntu ubuntu 4096 Apr
                                              11 09:51 .ssh
                    1 ubuntu ubuntu
                                        0 Apr
                                              11 09:26 .sudo_as_admin_successful
        drwxr-xr-x
                    2 ubuntu ubuntu 4096 Apr
                                              11 09:21 Templates
        drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 11 09:21 Videos
        ubuntu@ubuntu:~$
```

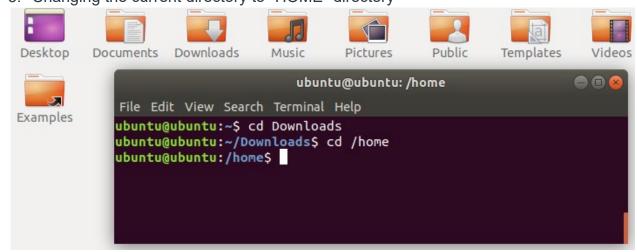
3. Displaying in long listing format with timestamp in reverse order



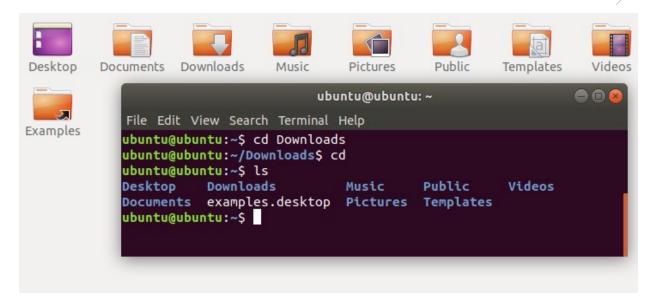
Displaying the "present working directory"



5. Changing the current directory to "HOME" directory



Or directly by typing "cd"



6. Look for a directory name desktop in the current working directory and changes to that.

```
ubuntu@ubuntu: ~/Desktop

File Edit View Search Terminal Help

ubuntu@ubuntu: ~$ ls

Desktop Downloads Music Public Videos

Documents examples.desktop Pictures Templates

ubuntu@ubuntu: ~$ cd Desktop

ubuntu@ubuntu: ~/Desktop$ pwd

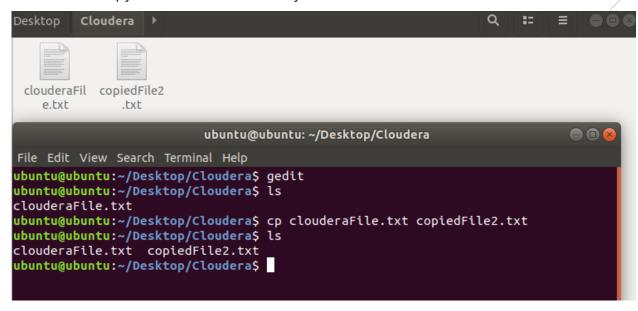
/home/ubuntu/Desktop

ubuntu@ubuntu: ~/Desktop$
```

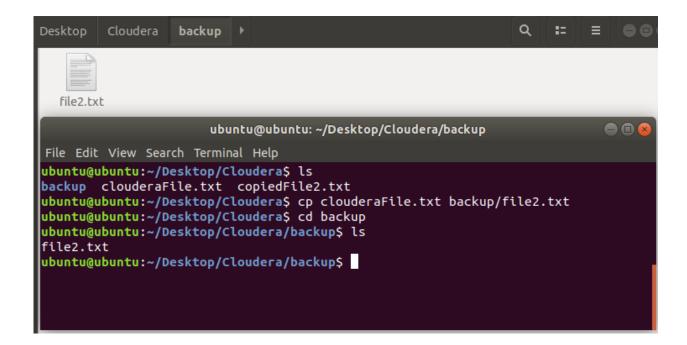
7. Create a directory directory.name in the current directory.

```
Desktop →
                                                                Q
  Cloudera
                         ubuntu@ubuntu: ~/Desktop
                                                              File Edit View Search Terminal Help
   ubuntu@ubuntu:~$ ls
                                          Public
                                                     Videos
   Desktop
              Downloads
                                Music
   Documents examples.desktop Pictures Templates
   ubuntu@ubuntu:~$ cd Desktop
   ubuntu@ubuntu:~/Desktop$ pwd
   /home/ubuntu/Desktop
   ubuntu@ubuntu:~/Desktop$ mkdir Cloudera
   ubuntu@ubuntu:~/Desktop$
```

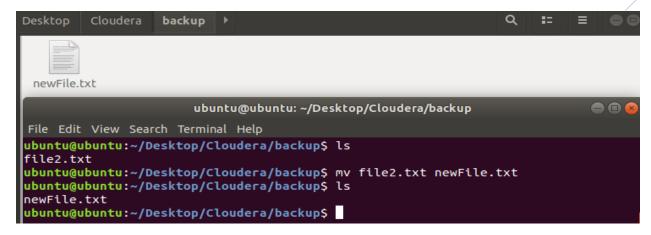
8. Create a copy of file in same directory.



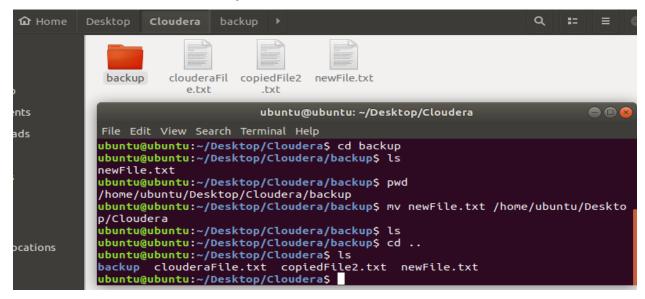
9. Create a copy of file in different directory



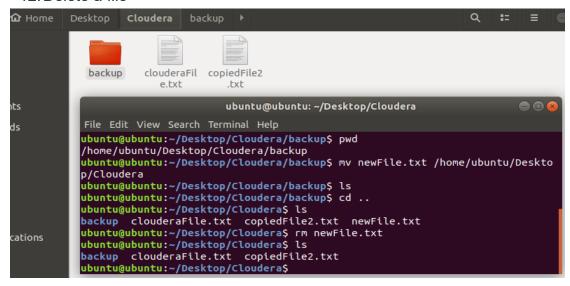
10. Rename a file



11. Move file from one directory to another

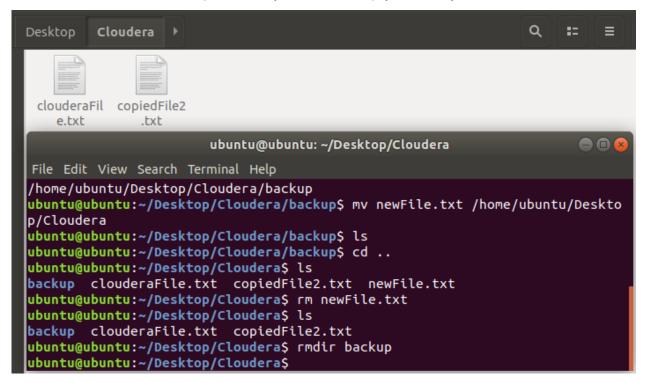


12. Delete a file



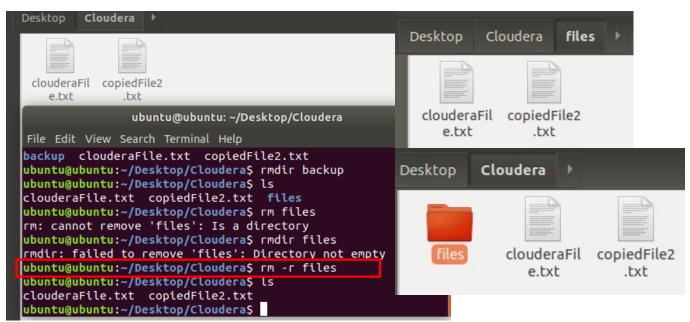
13. Delete an empty directory

As we see the 'backup' directory now is a empty directory, and we delete it.



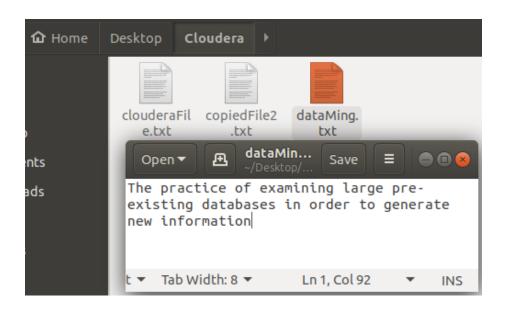
14. Delete a directory with files.

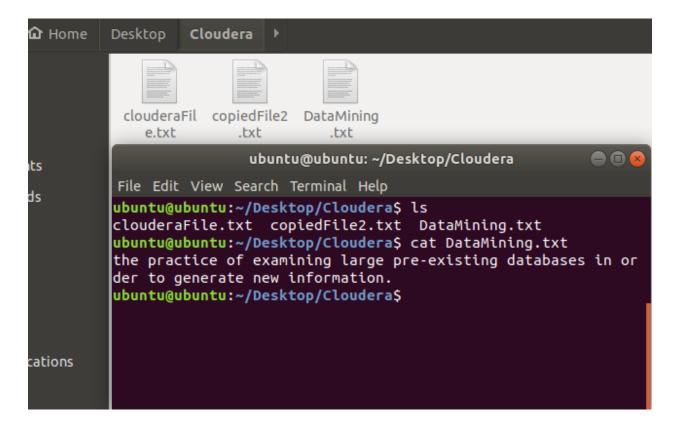
A new directory 'files' was created and there added a copy of two files, the we delete it.



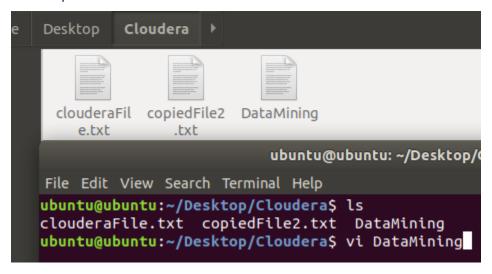
15. Viewing files

After creating some files and adding some certain text, we will view it



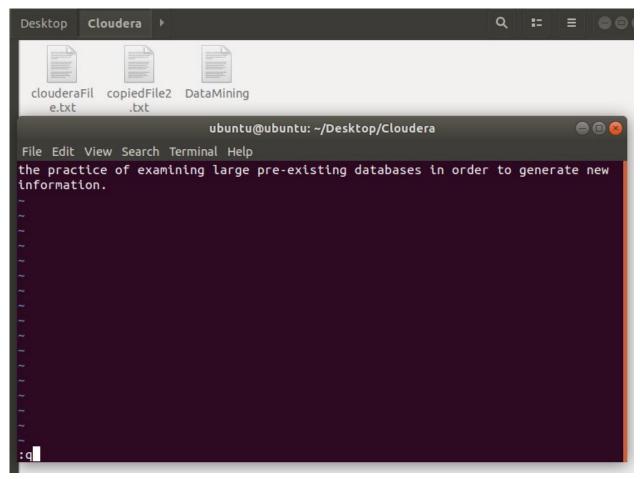


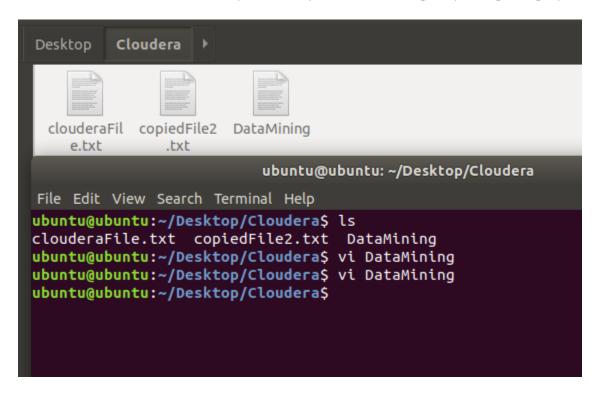
16. Open vi editor to edit file



17. Quit editor

On vim editor, pressing ':' and 'q' and hitting 'enter' will exit,





18. Write on a file

Adding the text in the begin, 'hi all, i am writing using Vim editor,'

19. Quit editor



20. Display size of files

```
    Terminal ▼

                                               Tue 15:51
      ◆ 1 Home
                  Desktop Cloudera >
                                ubuntu@ubuntu: ~/Desktop
  File Edit View Search Terminal Help
  ubuntu@ubuntu:~/Desktop/Cloudera$ ls
  clouderaFile.txt copiedFile2.txt DataMining
  ubuntu@ubuntu:~/Desktop/Cloudera$ cd ...
  ubuntu@ubuntu:~/Desktop$ ls
  Cloudera
  ubuntu@ubuntu:~/Desktop$ du -h Cloudera/
  80K
          Cloudera/
  ubuntu@ubuntu:~/Desktop$ du -h Cloudera/*
          Cloudera/clouderaFile.txt
  0
          Cloudera/copiedFile2.txt
  0
  4.0K
          Cloudera/DataMining
  ubuntu@ubuntu:~/Desktop$
```

21. Change group of file/directory

First as we list here, we can see that the group of these files is 'ubuntu', and the user is 'ubuntu'.

```
ubuntu@ubuntu: ~/Desktop/Cloudera

File Edit View Search Terminal Help

ubuntu@ubuntu: ~/Desktop/Cloudera$ ls -ltr

total 4
-rw-r--r-- 1 ubuntu ubuntu 0 Apr 14 14:52 clouderaFile.txt
-rw-r--r-- 1 ubuntu ubuntu 0 Apr 14 14:52 copiedFile2.txt
-rw-r--r-- 1 ubuntu ubuntu 93 Apr 14 15:26 DataMining

ubuntu@ubuntu: ~/Desktop/Cloudera$
```

So, to change we first create another group, and we proceed furthermore, ubuntu@ubuntu:~/Desktop/Cloudera\$ sudo addgroup data_mining
[sudo] password for ubuntu:
Adding group `data_mining' (GID 1001) ...
Done.

So now is another group with the same user as shown below,

ubuntu@ubuntu:~/Desktop/Cloudera\$

22. Create a group <group name> and a user < user>

Creating a group 'cloudera_group' and a user 'cloudera_user',

```
ubuntu@ubuntu: ~/Desktop/Cloudera
                                                                            File Edit View Search Terminal Help
ubuntu@ubuntu:~/Desktop/Cloudera$ sudo addgroup cloudera group
Adding group `cloudera group' (GID 1002) ...
ubuntu@ubuntu:~/Desktop/Cloudera$ sudo adduser --ingroup cloudera group cloudera
user
Adding user `cloudera user' ...
Adding new user `cloudera user' (1001) with group `cloudera group' ...
Creating home directory `/home/cloudera_user' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
Sorry, passwords do not match
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N] y
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for cloudera_user
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
ubuntu@ubuntu:~/Desktop/Cloudera$
```

23. Change Group for a given file

24. Change file/directory permissions with chmod 777

```
ubuntu@ubuntu:~/Desktop/Cloudera$ ls
clouderaFile.txt copiedFile2.txt DataMining
ubuntu@ubuntu:~/Desktop/Cloudera$ chmod 777 clouderaFile.txt
ubuntu@ubuntu:~/Desktop/Cloudera$
```

25. Change owner

The owner and the group of 'copiedFile2.txt' is ubuntu, for the user and group.

```
ubuntu@ubuntu:~/Desktop/Cloudera$ ls -ltr
total 4
-rwxrwxrwx 1 ubuntu data mining 0 Apr 14 14:52 clouderaFile.txt
-rw-r--r-- 1 ubuntu ubuntu 0 Apr 14 14:52 copiedFile2.txt
-rw-r--r-- 1 ubuntu ubuntu 93 Apr 14 15:26 DataMining
ubuntu@ubuntu:~/Desktop/Cloudera$
```

And there after changing group and the user,