## **Basic Ubuntu Commands**

1. pwd - This command is used to print the working directory. In the screenshot below, it shows that we are in the 'Raisa' directory located in 'home' directory.

```
raisa@tahasen-24141097:~$ pwd
/home/Raisa
raisa@tahasen-24141097:~$
```

2. cd .. - This command takes the user to one level up in the directory, in my case, it took me from /home/Raisa to /home .

```
raisa@tahasen-24141097:~$ pwd
/home/Raisa
raisa@tahasen-24141097:~$ cd ..
raisa@tahasen-24141097:/home$ pwd
/home
raisa@tahasen-24141097:/home$
```

3. whoami - This command displays the username of the current user. In my case, it is 'raisa'

```
raisa@tahasen-24141097:/home$ whoami
raisa
raisa@tahasen-24141097:/home$ uname
```

4. Uname - It gives information about the operating system.

```
raisa@tahasen-24141097:/home$ uname
Linux
raisa@tahasen-24141097:/home$ ps
```

5. ps - This command displays the information about the running processes in the system.

```
raisa@tahasen-24141097:/home$ ps
PID TTY TIME CMD
3701 pts/0 00:00:00 bash
5146 pts/0 00:00:00 ps
```

6. date - prints the current date, that is, day of the week, date, months, time and year

```
raisa@tahasen-24141097:/home$ date
Sun 9 Jun 19:58:19 +06 2024
raisa@tahasen-24141097:/home$
```

7. df - Gives information about disk space usage by filesystem. It shows the total space and available space.

```
raisa@tahasen-24141097:/home$ df
Filesystem
                1K-blocks
                               Used Available Use% Mounted on
tmpfs
                   200552
                               1500
                                        199052
                                                  1% /run
/dev/sda3
                 25106692 18139904
                                       5666104
                                                77% /
tmpfs
                  1002748
                                       1002748
                                                 0% /dev/shm
                                  0
tmpfs
                     5120
                                  4
                                          5116
                                                 1% /run/lock
/dev/sda2
                   524252
                               6220
                                        518032
                                                 2% /boot/efi
                                                 1% /run/user/1000
tmpfs
                   200548
                                116
                                        200432
               24141097 · /h
```

8. Mkdir <directory> - Used to create a directory.

```
raisa@tahasen-24141097:-$ mkdir cloud_computing
raisa@tahasen-24141097:-$
```

9. cd <directory> - Used to move to the directory that is mention in the command.

```
raisa@tahasen-24141097:~$ cd cloud_computing
raisa@tahasen-24141097:~/cloud_computing$
```

10. gedit <filename> - Used to create a file the working directory with the name mentioned in the command.



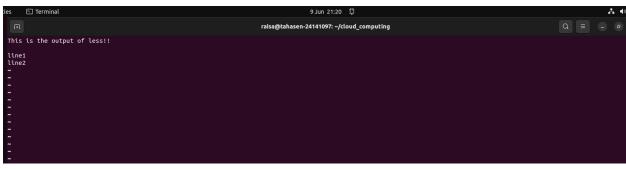
11. cat <filename> - Used to display the contents of the file mentioned in the command in the terminal. This command can also be used to read multiple files and create new ones.

```
raisa@tahasen-24141097:~/cloud_computing$ cat cloud.txt
This is the output of cat!
raisa@tahasen-24141097:~/cloud_computing$
```



12. less <filename> - Used to read the contents of the mentioned file page by page, that is one page at a time.

```
raisa@tahasen-24141097:~/cloud_computing$ less cloud.txt
raisa@tahasen-24141097:~/cloud_computing$
```



13. mv <oldfile> <newfile> - Used to rename a file.

```
ratsagtanasen-24141097:~/cloud_computing$ gedit cloud.txt
raisagtanasen-24141097:~/cloud_computing$ mv cloud.txt newcloud.txt
raisagtanasen-24141097:~/cloud_computing$ gedit newcloud.txt
raisagtanasen-24141097:~/cloud_computing$
```

14. head <filename> Used to read the first lines of the mentioned file. By default it shows the first 10 lines, however this number can be manipulated 'head -n [number] <filename>' where 'number' is replaced by the number of lines we want to read.

15. Is - This command lists all the directories and files under the current directory.

```
aisa@tahasen-24141097:~$ ls
24141097_4.txt
                                   oddeven
                                                                            task2_c.c
                                                рго
a3t2.c
                                   output.txt
                                                process
                                                                            task2 d.c
a4chat.c
                                                process1
                                                                            task2_e.c
chat2.c
                                   p1
                                                                            tasnia.c
                                                process2
                       input.txt
chat.c
                                                process3
                       ishia4.c
course.txt
                                                process4
                                                            sort
                                                                            test
                                                            task2_a.c
                       ishit2.c
                                   PP
                                                process5
                                                                            test1
                                   pp.c
                                                            task2_b.c
aisa@tahasen-24141097:~$
```

16. sudo apt-get update - Finds the latest versions of the packages and dependencies and lets the system know if newer versions are available. However it does not download the updates.

```
ralsa@tahasen-24141097:-/cloud_computing$ sudo apt-get update
[sudo] password for ralsa:
Htt:1 http://us.archive.ubuntu.com/ubuntu jammy-security InRelease
[6et:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
[6et:3 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease [127 kB]
[6et:4 http://us.archive.ubuntu.com/ubuntu jammy-updates [127 kB]
[6et:5 http://us.archive.ubuntu.com/ubuntu jammy-updates/main 1386 Packages [638 kB]
[6et:6 http://us.archive.ubuntu.com/ubuntu jammy-updates/main and64 Packages [1,712 kB]
[6et:6 http://us.archive.ubuntu.com/ubuntu jammy-updates/main and64 Packages [1,712 kB]
[6et:8 http://us.archive.ubuntu.com/ubuntu jammy-updates/main and64 Packages [1,712 kB]
[6et:8 http://us.archive.ubuntu.com/ubuntu jammy-updates/main Intellease [127 kB]
[6et:10 http://us.archive.ubuntu.com/ubuntu jammy-updates/main DEP-11 dax48 Icons [37.5 kB]
[6et:10 http://us.archive.ubuntu.com/ubuntu jammy-updates/main DEP-11 64x64 Icons [37.5 kB]
[6et:11 http://us.archive.ubuntu.com/ubuntu jammy-updates/main DEP-11 64x64 Icons [56.8 kB]
[6et:12 http://us.archive.ubuntu.com/ubuntu jammy-updates/restricted and64 Packages [1,966 kB]
[6et:13 http://us.archive.ubuntu.com/ubuntu jammy-updates/restricted and64 DEP-11 Mathadata [212 B]
[6et:14 http://us.archive.ubuntu.com/ubuntu jammy-updates/restricted fer-11 dax48 Icons [29 B]
[6et:16 http://us.archive.ubuntu.com/ubuntu jammy-updates/restricted DEP-11 44x48 Icons [29 B]
[6et:16 http://us.archive.ubuntu.com/ubuntu jammy-updates/restricted DEP-11 64x64 Icons [29 B]
[6et:16 http://us.archive.ubuntu.com/ubuntu jammy-updates/restricted DEP-11 64x64 Icons [29 B]
[6et:16 http://us.archive.ubuntu.com/ubuntu jammy-updates/restricted DEP-11 64x64 Icons [29 B]
```

17. free - This commands display the memory information of the operating system.

```
raisa@tahasen-24141097:~/cloud_computing$ free
               total
                            used
                                         free
                                                   shared buff/cache
                                                                         available
             2005496
Mem:
                         1097028
                                       172020
                                                    22172
                                                                736448
                                                                            726580
             2744316
                          225444
Swap:
                                      2518872
raisa@tahasen-24141097:~
                        /cloud_computing$
```

18. touch - Used to create new empty file and modify timestamps of existing ones.

```
raisa@tahasen-24141097:~/cloud_computing$ touch file.txt
raisa@tahasen-24141097:~/cloud_computing$

☐ Home / cloud_computing

Name

V Size Modified

O bytes 22:10 ☆
```

19. man info - Display the user manual of the command we can run in terminal.

20. ls -l - Shows file informations like file permissions and last modified date.

```
raisa@tahasen-24141097:~/cloud_computing$ ls -l
total 4
-rw-r--r-- 1 raisa raisa_tahasen 0 Jun 9 22:10 file.txt
-rw-r--r-- 1 raisa raisa_tahasen 40 Jun 9 21:34 newcloud.txt
raisa@tahasen-24141097:~/cloud_computing$
```

21. chmod - 'chmod 777 file.txt' gives read,write and execution permission of the file 'file.txt' to owner, group and other users.