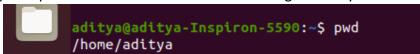
OS LAB 1

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BRANCH: IT

BASIC LINUX COMMANDS

1) pwd: prints the name of the current working directory



2) Is: list contents of the current working directory

Is -Irt: long listing

Is -Irt /home/name/something : long list a different directory

```
aditya@aditya-Inspiron-5590:-$ ls

Desktop Documents Downloads Music Pictures Public Templates Videos aditya@aditya-Inspiron-5590:-$ ls -l

total 32

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Desktop

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Documents

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Downloads

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Pictures

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Public

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Public

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Videos

aditya@aditya-Inspiron-5590:-$ ls -lrt

total 32

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Videos

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Public

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Public

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Pictures

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Pictures

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Documents

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Documents

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Documents

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Documents

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Documents

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drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Documents

drwxr-xr-x 2 aditya aditya 4096 Jan 11 05:26 Documents
```

3) cd: change directory

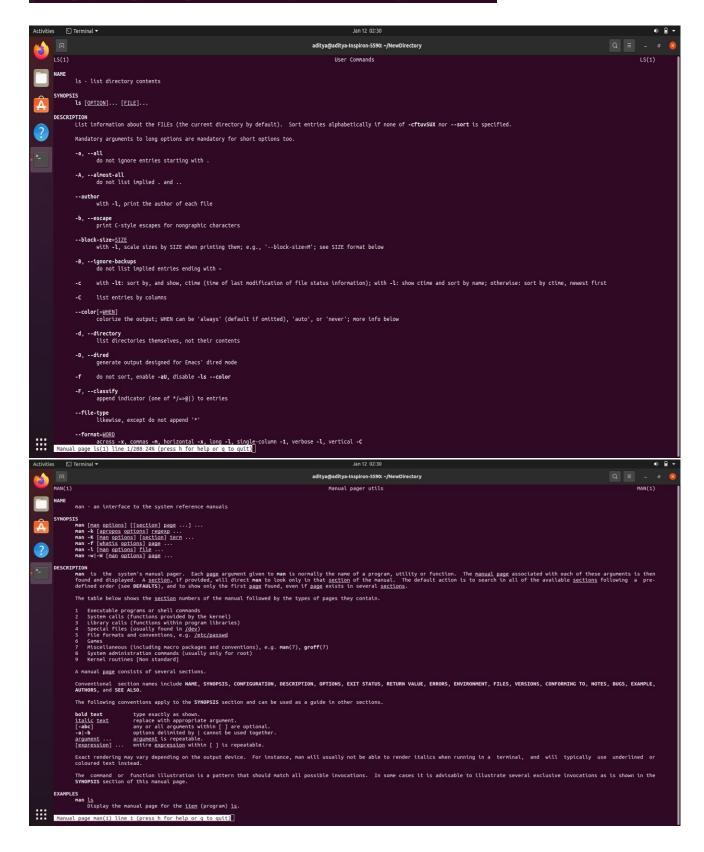
```
aditya@aditya-Inspiron-5590:~$ cd /home/aditya/Downloads
aditya@aditya-Inspiron-5590:~/Downloads$ cd -
/home/aditya
aditya@aditya-Inspiron-5590:~$ cd
```

4) mkdir: create a new directory

```
aditya@aditya-Inspiron-5590:~$ mkdir ./NewDirectory aditya@aditya-Inspiron-5590:~$ cd ./NewDirectory aditya@aditya-Inspiron-5590:~/NewDirectory$ ls aditya@aditya-Inspiron-5590:~/NewDirectory$
```

5) man: display the manual of a given program

aditya@aditya-Inspiron-5590:~/NewDirectory\$ man ls aditya@aditya-Inspiron-5590:~/NewDirectory\$ man man



6) echo: to create a file

SYNTAX: echo 'Text to be added' > filename

```
aditya@aditya-Inspiron-5590:~/NewDirectory$ echo 'This is a test file' > data.txt
aditya@aditya-Inspiron-5590:~/NewDirectory$ ls
data.txt
```

7) mv: move or rename a file

```
aditya@aditya-Inspiron-5590:~/NewDirectory$ mv data.txt newData.txt
aditya@aditya-Inspiron-5590:~/NewDirectory$ ls
newData.txt
```

8) cp:copy a file

```
aditya@aditya-Inspiron-5590:~/NewDirectory$ cp newData.txt data.txt
aditya@aditya-Inspiron-5590:~/NewDirectory$ ls
data.txt newData.txt
```

9) chmod: change the permissions of a file

```
aditya@aditya-Inspiron-5590:~/NewDirectory$ chmod a+r data.txt
```

10) rm: delete a file forever

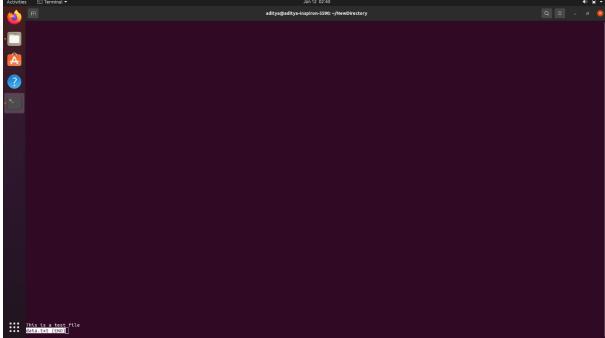
```
aditya@aditya-Inspiron-5590:~/NewDirectory$ rm newData.txt aditya@aditya-Inspiron-5590:~/NewDirectory$ ls data.txt
```

11) more: displays the contents of a file page by page

less: a replacement for more, displays data more nicely and makes search easy

```
aditya@aditya-Inspiron-5590:~/NewDirectory$ more data.txt
This is a test file
aditya@aditya-Inspiron-5590:~/NewDirectory$ less data.txt

Activities Direminal*
Activities Direminal*
Additya@aditya-Inspiron-5590:~/NewDirectory
```



12) find: search for files across directories

```
aditya@aditya-Inspiron-5590:~$ find ./ -name 'da*.txt' ./NewDirectory/data.txt
```

13) df: check how much space is left

```
aditya@aditya-Inspiron-5590:~$ df
Filesystem
                    1K-blocks
                                     Used Available Use% Mounted on
udev
                      3935372
                                              3935372
                                                         0% /dev
                                        0
tmpfs
                       793000
                                     1940
                                               791060
                                                           1% /run
                     56958080 5118240
/dev/sda5
                                                         10% /
                                            48916784
                                                         0% /dev/shm
1% /run/lock
0% /sys/fs/cgroup
                                    0
tmpfs
                      3964988
                                              3964988
                                     4
tmpfs
                         5120
                                                5116
                      3964988
                                            3964988
tmofs
tmpfs
/dev/loop0
/dev/loop1
/dev/loop2
/dev/loop4
                                            0 100% /snap/gnome-3-34-1804/72
0 100% /snap/core18/2128
0 100% /snap/gtk-common-themes/1515
0 100% /snap/snap-store/547
0 100% /snap/snapd/12704
792972 1% /run/user/1000
                       224256 224256
                        56832
                                   56832
                         66688
                                   66688
                         52224
                                    52224
                                   33152
                         33152
                                     24
tmpfs
                       792996
 aditya@aditya-Inspiron-5590:~$ df .
                1K-blocks
                                    Used Available Use% Mounted on
 Filesystem
/dev/sda5
                    56958080 5118240 48916784 10% /
```

14) top: list processes in order of CPU storage

