

**20MCA136-NETWORKING &
ADMINISTRATION LAB**

EXPERIMENT

Ubuntu Basic Commands-2

SUBMITTED BY,

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MEERA MISS

1. echo

-Used to display a message

```
hello, my name is vivin  
vivin@vivin-VirtualBox:~/Desktop$ echo Hello Every one  
Hello Every one  
vivin@vivin-VirtualBox:~/Desktop$
```

- Used to move some data into a file.

```
Ajce 'hello world welcome' Mca2  
vivin@vivin-VirtualBox:~/Desktop$ echo Hello, My name is Vivin>>name.txt  
vivin@vivin-VirtualBox:~/Desktop$ ls  
Ajce 'hello world welcome' Mca2 name.txt  
vivin@vivin-VirtualBox:~/Desktop$ cat name.txt  
Hello, My name is Vivin  
vivin@vivin-VirtualBox:~/Desktop$
```

2. head

- Used to view the first lines of any text file. By default, it will show the first ten lines, but you can change this number to your liking

```
vivin@vivin-VirtualBox:~/Desktop$ head /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin  
bin:x:2:2:bin:/bin:/usr/sbin/nologin  
sys:x:3:3:sys:/dev:/usr/sbin/nologin  
sync:x:4:65534:sync:/bin:/bin/sync  
games:x:5:60:games:/usr/games:/usr/sbin/nologin  
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin  
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin  
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin  
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin  
vivin@vivin-VirtualBox:~/Desktop$
```

-to print 4 lines from a text file from the top

```
vivin@vivin-VirtualBox:~/Desktop$ head -n 4 /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin  
bin:x:2:2:bin:/bin:/usr/sbin/nologin  
sys:x:3:3:sys:/dev:/usr/sbin/nologin  
vivin@vivin-VirtualBox:~/Desktop$
```

3. tail.

- The tail command will display the last ten lines of a text file

```
vivin@vivin-VirtualBox:~/Desktop$ tail /etc/passwd
nm-openvpn:x:118:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
whoopsie:x:120:125:/:nonexistent:/bin/false
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:122:127:/:var/lib/geoclue:/usr/sbin/nologin
pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:124:65534:/:run/gnome-initial-setup:/bin/false
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
vivin:x:1000:1000:Vivin V Abraham,,,:/home/vivin:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:usr/sbin/nologin
vivin@vivin-VirtualBox:~/Desktop$
```

- to print last 4 lines from a text file

```
vivin@vivin-VirtualBox:~/Desktop$ tail -n 4 /etc/passwd
gnome-initial-setup:x:124:65534:/:run/gnome-initial-setup:/bin/false
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
vivin:x:1000:1000:Vivin V Abraham,,,:/home/vivin:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:usr/sbin/nologin
vivin@vivin-VirtualBox:~/Desktop$
```

4. read

- The read the contents of a line into a variable.

```
vivin@vivin-VirtualBox:~/Desktop$ read v1 v2 v3
Anu Jinu Manu
vivin@vivin-VirtualBox:~/Desktop$ echo ["$v1"] ["$v2"] ["$v3"]
[Anu] [Jinu] [Manu]
vivin@vivin-VirtualBox:~/Desktop$
```

The read command can be used with and without arguments.

```
vivin@vivin-VirtualBox:~/Desktop$ read
hello
vivin@vivin-VirtualBox:~/Desktop$
```

5. more

- Used to displays the content of a file. Only difference is that, in case of larger files

```

vivin@vivin-VirtualBox:~/Desktop$ more /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin

```

-After passing the command the content that can show in the entire screen should display with percentage

```

root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106:/:/nonexistent:/usr/sbin/nologin
syslog:x:104:110:/:/home/syslog:/usr/sbin/nologin
_apert:x:105:65534:/:/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
--More-- (48%)

```

To Scroll down Enter Key used

```
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106:/:/nonexistent:/usr/sbin/nologin
syslog:x:104:110:/:/home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uidd:x:107:114:/:/run/uidd:/usr/sbin/nologin
--More-- (50%)
```

```
_apt:x:105:65534:/:/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uidd:x:107:114:/:/run/uidd:/usr/sbin/nologin
tcpdump:x:108:115:/:/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
rtkit:x:111:117:RealtimeKit,,,:/proc:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
cups-pk-helper:x:113:120:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
speech-dispatcher:x:114:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
avahi:x:115:121:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin
kernoops:x:116:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
saned:x:117:123:/:/var/lib/saned:/usr/sbin/nologin
nm-openvpn:x:118:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
whoopsie:x:120:125:/:/nonexistent:/bin/false
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:122:127:/:/var/lib/geoclue:/usr/sbin/nologin
pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:124:65534:/:/run/gnome-initial-setup:/bin/false
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
vivin:x:1000:1000:Vivin V Abraham,,,:/home/vivin:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
vivin@vivin-VirtualBox:~/Desktop$
```


6. less

-It is same as more command

- It automatically adjust with the width and height of the terminal window, while ' command cuts the content as the width of the terminal window get shorter.

```
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106:/:/nonexistent:/usr/sbin/nologin
syslog:x:104:110:/:/home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
:
```

```
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106:/:/nonexistent:/usr/sbin/nologin
syslog:x:104:110:/:/home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:114:/:/run/uuidd:/usr/sbin/nologin
tcpdump:x:108:115:/:/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
rtkit:x:111:117:RealtimeKit,,,:/proc:/usr/sbin/nologin
:
```

```

_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uuuid:x:107:114::/run/uuuid:/usr/sbin/nologin
tcpdump:x:108:115::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
rtkit:x:111:117:RealtimeKit,,,:/proc:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
cups-pk-helper:x:113:120:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
speech-dispatcher:x:114:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
avahi:x:115:121:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin
kernoops:x:116:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
saned:x:117:123::/var/lib/saned:/usr/sbin/nologin
nm-openvpn:x:118:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
whoopsie:x:120:125::/nonexistent:/bin/false
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup:/bin/false
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
vivin:x:1000:1000:Vivin V Abraham,,,:/home/vivin:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/usr/sbin/nologin
(END)

```

7. cut

-It is used for cutting out the sections from each line of files and writing the result to standard output It can be used to cut parts of a line by byte position, character and field

```

vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ cat file3.txt
JOBIN
JOICE
JOMEESH
K M ABHIJITH
VIVIN
VISHNU RAJ
VIMAL
Hai
friends
How
are
you
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ cut -b 1,2 file3.txt
JO
JO
JO
K
VI
VI
VI
Ha
fr
Ho
ar
yo
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$

```

8. paste

-It is used to join files horizontally (parallel merging) by outputting lines consisting of lines from each file specified, separated by tab as delimiter, to the standard output

```
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ ls
file1.txt file2.txt file3.txt file.txt hobby.txt pic.png roll.txt
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ paste roll.txt file3.txt hob
by.txt
1      JOBIN      swimming
2      JOICE      cricket
3      JOMEESH    hockey
4      K M ABHIJITH    cycling
5      VIVIN      walkinf
6      VISHNU RAJ      riding
7      VIMAL      travelling
8      Hai        gaming
9      friends      cards
10     How
      are
      you
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$
```

9. uname

- It is used to print detailed information about your Linux system like the machine name, operating system, kernel, and so on

```
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ uname
Linux
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ uname -v
#60~20.04.1-Ubuntu SMP Thu May 6 09:52:46 UTC 2021
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ uname -r
5.8.0-53-generic
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ uname -p
x86_64
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$
```

10. cp

- used to copy files from the current directory to a different directory

```
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ ls
fil file1.txt file3.txt files file.txt hobby.txt pic.png roll.txt
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ ls fil
file2.txt
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ cp file1.txt fil
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ ls
fil file1.txt file3.txt files file.txt hobby.txt pic.png roll.txt
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ ls fil
file1.txt file2.txt
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$
```


11. mv

- used to move files, it can also be used to rename files The arguments in mv are similar to the cp command You need to type mv, the file's name, and the destination's directory

```
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ ls
fil      file2.txt  files     hobby.txt  roll.txt
file1.txt file3.txt  file.txt  pic.png
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ mv file2.txt fil
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ ls
fil file1.txt file3.txt files file.txt hobby.txt pic.png roll.txt
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ ls fil
file2.txt
```

Used to rename files/depositories,

```
vivin@vivin-VirtualBox:~/Desktop$ mv Ajce Amal
vivin@vivin-VirtualBox:~/Desktop$ ls
Amal 'hello world welcome' Mca2 name.txt
vivin@vivin-VirtualBox:~/Desktop$ mv name.txt friends.txt
vivin@vivin-VirtualBox:~/Desktop$ ls
Amal friends.txt 'hello world welcome' Mca2
vivin@vivin-VirtualBox:~/Desktop$
```

12. locate

-Used to locate a file, just like the search command in Windows the i argument along with this command will make it case insensitive, so you can search for a file even if you don't remember its exact name To search for a file that contains two or more words, use an asterisk

```
vivin@vivin-VirtualBox:~/Desktop$ cat friends.txt
Hello, My name is Vivin
vivin@vivin-VirtualBox:~/Desktop$ locate -i name*vivin

Command 'locate' not found, but can be installed with:

sudo apt install mlocate

vivin@vivin-VirtualBox:~/Desktop$
```

13. find

-Used to searches for files and directories

The difference is, you use the find command to locate files within a given directory

```
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ find /home/ -name Mca
/home/vivin/Desktop/Ajce/Mca
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ find /home/ -name fil
/home/vivin/Desktop/Ajce/Mca/B-Batch/fil
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ ls
fil file1.txt file3.txt files file.txt hobby.txt pic.png roll.txt
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ find /home/
/home/
/home/vivin
/home/vivin/Music
/home/vivin/.bash_logout
/home/vivin/.gnupg
/home/vivin/.gnupg/private-keys-v1.d
```

```
/home/vivin/.bashrc
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ find /home/ -name file3.txt
/home/vivin/Desktop/Ajce/Mca/B-Batch/file3.txt
/home/vivin/Desktop/Ajce/Desktop/newnew/Ajce/file3.txt
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$
```

14. grep

It helps to search through all the text in a given file

```
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ grep jobin file3.txt
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ ls
fil file1.txt file3.txt files file.txt hobby.txt pic.png roll.txt
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ cat file3.txt
JOBIN
JOICE
JOMEESH
K M ABHIJITH
VIVIN
VISHNU RAJ
VIMAL
Hai
friends
How
are
you
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ grep JOBIN file3.txt
JOBIN
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ grep vivin /etc/passwd
vivin:x:1000:1000:Vivin V Abraham,,,:/home/vivin:/bin/bash
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$
```

15. du

-Used to check how much space a file or a directory takes, the du (Disk Usage) command is the answer. However, the disk usage summary will show disk block numbers instead of the usual size format.

If you want to see it in bytes, kilobytes, and megabytes, add the h argument to the command line.

```
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ du -h
12K    ./fil
200K   .
```

```
vivin@vivin-VirtualBox:~/Desktop/Ajce/Mca/B-Batch$ cd
vivin@vivin-VirtualBox:~$ du -h
4.0K    ./Music
4.0K    ./gnupg/private-keys-v1.d
8.0K    ./gnupg
2.2M    ./Pictures
4.0K    ./cache/evolution/calendar/trash
8.0K    ./cache/evolution/calendar
4.0K    ./cache/evolution/addressbook/trash
8.0K    ./cache/evolution/addressbook
4.0K    ./cache/evolution/mail/trash
8.0K    ./cache/evolution/mail
4.0K    ./cache/evolution/memos/trash
8.0K    ./cache/evolution/memos
4.0K    ./cache/evolution/sources/trash
8.0K    ./cache/evolution/sources
4.0K    ./cache/evolution/tasks/trash
8.0K    ./cache/evolution/tasks
52K     ./cache/evolution
344K    ./cache/thumbnails/large
116K    ./cache/thumbnails/normal
464K    ./cache/thumbnails
12K     ./cache/update-manager-core
360K    ./cache/gstreamer-1.0
8.0K    ./cache/ubuntu-report
7.4M    ./cache/tracker
12K     ./cache/rhythmbox/album-art
8.0K    ./cache/rhythmbox/alternate-toolbar
```

16. df

-Used to get a report on the system's disk space usage, shown in percentage and KBs If you want to see the report in megabytes, type `df -m`

```
vivin@vivin-VirtualBox:~$ df -m
Filesystem      1M-blocks  Used Available Use% Mounted on
udev             462        0         462   0% /dev
tmpfs            99         2          97   2% /run
/dev/sda5       9509      7167       1840  80% /
tmpfs           491        0         491   0% /dev/shm
tmpfs            5         1          5    1% /run/lock
tmpfs           491        0         491   0% /sys/fs/cgroup
/dev/loop1       56         56          0 100% /snap/core18/2066
/dev/loop2      219        219          0 100% /snap/gnome-3-34-1804/66
/dev/loop3      219        219          0 100% /snap/gnome-3-34-1804/72
/dev/loop4       65         65          0 100% /snap/gtk-common-themes/1514
/dev/loop5       66         66          0 100% /snap/gtk-common-themes/1515
/dev/loop8       51         51          0 100% /snap/snap-store/542
/dev/loop9       33         33          0 100% /snap/snapd/12057
/dev/sda1       511         1         511   1% /boot/efi
tmpfs           99         1          99   1% /run/user/1000
/dev/loop10      56         56          0 100% /snap/core18/2074
/dev/loop0       33         33          0 100% /snap/snapd/12159
/dev/loop7       51         51          0 100% /snap/snap-store/547
vivin@vivin-VirtualBox:~$
```

17. useradd.

-Since Linux is a multi user system, this means more than one person can interact with the same system at the same time used to create a new user, while `passwd` is adding a password

```
tail: cannot open '/etc/passwd' for reading: No such file or directory
vivin@vivin-VirtualBox:~$ sudo userdel anu
vivin@vivin-VirtualBox:~$ useradd anu
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
vivin@vivin-VirtualBox:~$ sudo useradd anu
vivin@vivin-VirtualBox:~$ tail /etc/passwd
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
whoopsie:x:120:125::/nonexistent:/bin/false
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup:/bin/false
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
vivin:x:1000:1000:Vivin V Abraham,,,:/home/vivin:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
anu:x:1001:1001::/home/anu:/bin/sh
vivin@vivin-VirtualBox:~$ passwd
```

18. userdel

-Used to remove a user is very similar to adding a new user To delete the users account type, userdel UserName

```
password: password updated successfully
vivin@vivin-VirtualBox:~$ userdel anu
userdel: Permission denied.
userdel: cannot lock /etc/passwd; try again later.
vivin@vivin-VirtualBox:~$ sudo userdel anu
vivin@vivin-VirtualBox:~$ tail /etc/passwd
nm-openvpn:x:118:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
whoopsie:x:120:125::/nonexistent:/bin/false
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup:/bin/false
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
vivin:x:1000:1000:Vivin V Abraham,,,:/home/vivin:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
vivin@vivin-VirtualBox:~$ man locate
```

19. sudo

-Used to perform tasks that require administrative or root permissions You must have sufficient permissions to use this command

```
useradd: cannot lock /etc/passwd; try again later.
vivin@vivin-VirtualBox:~$ sudo useradd anu
vivin@vivin-VirtualBox:~$ tail etc/passwd
tail: cannot open 'etc/passwd' for reading: No such file or directory
vivin@vivin-VirtualBox:~$ sudo userdel anu
vivin@vivin-VirtualBox:~$ useradd anu
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
vivin@vivin-VirtualBox:~$ sudo useradd anu
vivin@vivin-VirtualBox:~$ tail /etc/passwd
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
whoopsie:x:120:125::/nonexistent:/bin/false
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup:/bin/false
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
vivin:x:1000:1000:Vivin V Abraham,,,:/home/vivin:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
anu:x:1001:1001::/home/anu:/bin/sh
vivin@vivin-VirtualBox:~$ passwd
```


20. passwd

-Used to changes passwords for user accounts normal user may only change the password for their own account, while the superuser may change the password for any account

```
vivin@vivin-VirtualBox:~$ passwd
Changing password for vivin.
Current password:
New password:
Retype new password:
passwd: password updated successfully
vivin@vivin-VirtualBox:~$ passwd anu
passwd: You may not view or modify password information for anu.
vivin@vivin-VirtualBox:~$ sudo passwd anu
New password:
Retype new password:
passwd: password updated successfully
vivin@vivin-VirtualBox:~$ userdel anu
```