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Exp: 1

BASIC LINUX COMMAND

1. date command.

→ \$ date

Mon Feb 3 08:19:18 IST 2025

→ \$ date +%m

02

→ \$ date +%h

Feb

→ \$ date +%d

03

→ \$ date +%Y

25

→ \$ date +%M

23

→ \$ date +%H

08

→ \$ date +%S

12

2. echo command:

\*echo Hello

Hello

3. cal command:

\*cal

February 2025						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

4. bc command.

→ bc

4+4

8

5-3

2

(10) 12

5. who command

→ \$who

student pts/0

2025-02-23 08:16 (:)

student pts/1

2025-02-23 08:17 (:)

→ \$who am i

student pts/1

2025-02-23 08:17 (:)

6. tty command

→ \$tty

pts/1

7. man command

→ \$man

what manual page do you want?

8) ps command

→ \$ps

PID	TTY	TIME+MB	CMD
1626	pts/1	00:00:00	bash
1672	pts/1	00:00:00	bc
1673	pts/1	00:00:00	bc
1708	pts/1	00:00:00	ps

9) clear command

→ \$clear

10) uname command:

→ \$uname

LINUX

→ \$uname -m

i686

→ \$uname -r

localhost.localdomain

→ \$uname -s

4.11.8-300.fc16.i686.PAE

→ \$uname -i

Linux

1.2 Directory Command:

1. pwd command:

→ \$pwd ↵

/home/student

2. mkdir command:

→ \$mkdir ↵

3) cd command:

→ cd receive ↵

4) rmdir command:

→ cd ↵

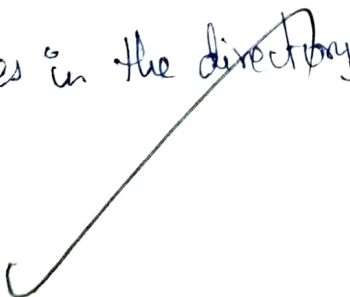
→ ~~cd~~

→ rmdir receive

5) ls command

→ ls ↵

list of all files in the directory



### 1.3. File Handling Command:

#### 1. cat command:

→ cat >file1 ↵

→ hello, welcome ↵

Ctrl Z.

#### 2. display

→ cat file1 ↵

hello, welcome.

#### 2. cp command.

→ cp file1 file2.

→ cat file2 ↵

hello, welcome.

#### 3) rm command:

→ rm file2 ↵

#### 4. mv command.

→ mv file1 file2

→ cat file2 ↵

hello, welcome.

#### 5) file command.

→ file file2 ↵

ASCII text.

6. wc command.

→ ~~wc~~ wc file2 ↵

1 2 15 file2

7. Directing output to a file command.

→ ls > file1 ↵

"store the output of ls command to file1".

8. pipe command:

→ cat file2 | wc file2

→ 1 2 15 file2.

9. tee command

→ ~~cat~~ file2 | tee sample | wc file2 ↵

1 2 15 file2

→ cat sample

hello, welcome

10. Metacharacters of unix command

→ ls f\*\* → display all files start with 'f'  
file1 files

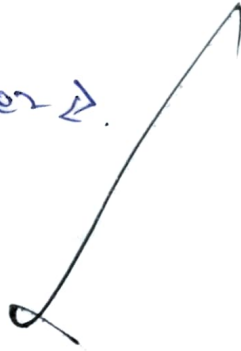
→ ls [a-z] ↵

Not file  
No such file or directory

1.1. ~~File permission command:~~

11. chmod command:

→ chmod -w file <>



12 Octal notation command

→ chmod 761 college

7 → 4+2+1 → all permission to owner

6 → 4+2 → read, write permission to group

1 → executable permission to others

14 Grouping command:

1) redirection command.

→ cat file2; date >

hello, welcome

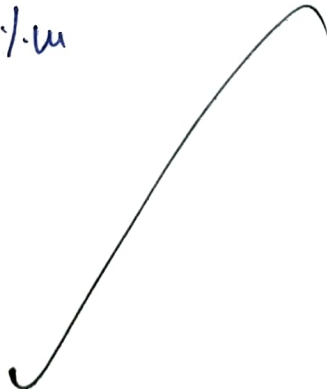
Tue Feb 4 08:52:04 IST 2025

2. && operator:

→ cat file2 && date +%.m

hello welcome

04.





3) || operator

→ we college || date

1 3 15 college

→ we colleges || date

Tue Feb 4 08:54:58 IST 2025

## 15 FILTERS

1. head filter:

→ head file

"display first 10 lines in file"

2. tail filter:

→ tail file

"display last 10 lines in file"

3. more filter:

pg command

→ \$ls /more

"show page by page"

ctrl/Z → to terminate command

4) grep command

→ cat > student

→ a run 01

→ sam 01

→ dani 02

→ hello 01

→ set 02

ctrl+Z

→ grep "02" student

demo 02

set 02

6) ~~lsort~~ command

→ sort student ↵

axun 01

demo 02

hello 01

sam 01

set 02

→ sort -c student ↵

sort: student: 3: disorder: hello 01

→ sort -m students

axun 01

sam 01

hello 01

demo 02

set 02.

6. nl command:

→ nl college ↵

1 welcome to cse.

→ nl student ↵

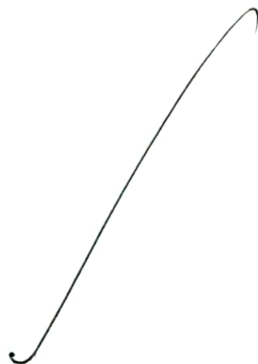
1 axun 01

2 sam 01

3 hello 01

4 demo 02

5 set 02.



7) cut command

D free command.

D free command.

→ free

	total
le	
Mon:	2051484
56	
swap	2187260

used	free	shared	buff/cache	available
743936	301504	47940	106044	11610
0	2187260			

ii) top caused:

→ stop!

11) ps command:

→ #ps<

PID	TTY	TIME	CMD
2302	pts/3	00:00:00	bash
2356	pts/3	00:00:00	bc
2376	pts/3	00:00:02	top
2383	pts/3	00:00:00	top
2387	pts/3	00:00:00	ps

vmstat command.

→ # vmstat 1

[illegible]

v) df command.

→ #df.

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
devtmpfs	1014756	0	1014756	0%	/dev
tmpfs	1025740	0	1025740	0%	/dev/shm
tmpfs	1025740	1244	1024496	1%	/run
tmpfs	1025740	0	1025740	0%	/sys/fs/cgroup

vi) ping command.

→ #ping.

usage: ping [-aAbBdDfhLnOqrRUvV64] [-C count] [-i interval] [-S interface]  
 [-m mark] [-M mtu] [-l preload] [-p pattern] [-q tos]  
 [-s packetsize] [-t ttl] [-w timeout] [-S sndbuf] [-t ttl]  
 [-T timestamp-option] [-w deadline] [-t ttl] [-hops ...]  
 destination.

vii) ifconfig command.

→ #ifconfig.

```
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (local loopback)
    RX packets 20 bytes 1728 (1.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 20 bytes 1728 (1.6 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collision 0
```

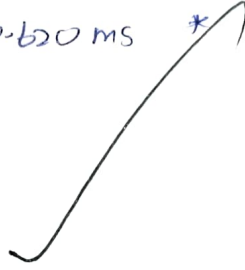
viii). traceroute command

→ # traceroute www.rajalakshmi.org

traceroute to www.rajalakshmi.org (14.99.10.232), 30 hops max, 60 byte packets

1. rajalakshmi.org (14.99.10.232) 0.182 ms 0.153 ms 0.138 ms

2. rajalakshmi.org (14.99.10.232) 0.620 ms \* \*



example

```
[root@localhost ~]# traceroute www.rajalakshmi.org
traceroute to www.rajalakshmi.org (220.227.30.51), 30 hops max, 60 byte
packets 1 gateway (172.16.4.1) 0.299 ms 0.297 ms 0.327 ms
2 220.225.219.38 (220.225.219.38) 6.185 ms 6.203 ms 6.189 ms
```

**Result:**

Thus the output was executed and verified.

8/12/25