OUTPUT:

1. $date +%m = 01

$date +%h = Jan

$date +%d = 21

$date +%y = 25

$date +%H = 08

$date +%M = 27

$date +%S = 30

2. $echo "God is Great"

God is Great

3. $cal Jan 2025

January 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	29	30	31	

OUTPUT:

4. echo "10+10" | bc

20

6. $who am i

cse17 pts/17 2025-02-01 8:16 (172.16.9.26)

7. $id

uid = 1016 (cse17) gid = 1016 (cse17) groups = 1016(cse17)

context = unconfined_u : unconfined_r : unconfined_t : s0-s0:c0

id_u

1015

8. $tty

/dev/pts/17

11. $ps

PID	TTY	TIME	CMD
1936	pts/17	00:00:00	bash
2569	pts/17	00:00:00	ps

OUTPUTS:

12. $uname -n

local host. local domain

• uname -m

1686

• uname -r

4.11.8-300.fc26.1686+PAE

• uname -s

linux

• uname -v

#1 SMP THU JUN 29 20:38:21 UTC 2017

• uname -a

linux local host local domain 4.11.8-300fc26.1686+PAE

#1 SMP Thu JUN 29 20:38:21 UTC 2017 1686 1686

1386 GNU/Linux.

1.2) Directory commands.

$pwd

1. /home/cse17

2. $mkdir receee - File exists.

5. $ls

cse cse.sh ex1.sh ex2.sh ex3.sh sample.sh

1.3) File Handling commands

3) $cat > rec

Hi

$cat >demo

$cp rec demo

cat demo

Hi

5) $cat>rec

Hi

$cat > sample

$mv rec sample

Hi

6) ASCII text

7) $ wc receee

1 2 16 rec

9) $ who | wc -1

11 11 71 rec

10) $ who | tee sample | wc -1

11 11 71 rec

11) $ ls r**

ls ? ec → rec

OUTPUT: (Grouping commands)

1. $who ; date

student pts/0 2025-02-03 09:05 (:0)

student pts/1 2025-02-03 09:06 (:0)

Mon Feb 3 09:06:28 IST 2025

2. $who && date

Mon Feb 3 09:08:58 IST 2025

3. ~~$read~~ $who || date

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	

OUTPUT:

1. free -t

	total	used	free	shared	buff/cache
Mem:	4062904	651820	2602176	162148	1068280
Swap:	3424252	0	3424252		
Total:	7487156	651820	6026428		

2) top

2343 root 20 0 .....

⋮

3) ps -e

1 ? 00:00:01 systemd

⋮

OUTPUT:

4. vmstat

u	b	swpd	free	buff	cache	si	so	bi	bo	in
0	0	0	186008	69132	1000884	0	0	217	124	208 ...

5. df

devtmpfs 986180 0 986180 0% /dev

⋮

6. ping 172.16.4.1

64 bytes 172.16.4.1 : icmp_seq = 1 ttl = 64 time = 0.193 ms

⋮

64 bytes from 172.16.4.1: icmp_seq=3 ttl=64 time=0.264 ms
64 bytes from 172.16.4.1: icmp_seq=4 ttl=64 time=0.312 ms
^C
--- 172.16.4.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3000ms
rtt min/avg/max/mdev = 0.228/0.283/0.328/0.039 ms

7. ifconfig

It is used configure network interface.

synopsis- ifconfig [options]

<u>example</u>

[root@localhost ~]# ifconfig

enp2s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu
1500 inet 172.16.6.102 netmask 255.255.252.0 broadcast 172.16.7.255 inet6
fe80::4a0f:cfff:fe6d:6057 prefixlen 64 scopeid 0x20<link>
ether 48:0f:cf:6d:60:57 txqueuelen 1000 (Ethernet)

RX packets 23216 bytes 2483338 (2.3 MiB)
RX errors 0 dropped 5 overruns 0 frame 0
TX packets 1077 bytes 107740 (105.2 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0 **8.**

traceroute

It tracks the route the packet takes to reach the destination.

synopsis- traceroute [options]

<u>example</u>

[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 basic linux comands were executed successfully.

4/12/25