Ex. No. 1	
Date: **23.01.2025**	**BASIC LINUX COMMANDS**

Commands

Date Commands.

1. Display only the month name.
   Syntax: date +%h

   Output: Jan

2. Display only the month
   Syntax: date +%m

   Output: 01

3. Display day of month.
   Syntax: date +%d

   Output: 30

4. To display last 2 digits of the year
   Syntax: date +%y

   Output: 25

5. To display hours.
   Syntax: date +%H

   Output: 13.

6. To display minutes
   Syntax: date +%M

   Output: 56.

7. To display seconds.
   Syntax: data+ %S.

   Output: 41

8. echo command.
   Syntax: "echo Hi"

   OP: Hi.

9. Display the specific month or year.
   Syntax: cal

Sun	Mon	Tue	Wed	Thurs	Fr	Sat
						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.	

10. Offers an online calculator and can be command.

Syntax: bc

O/P: 2+3

5

11. who - display the data about the users who are currently logged into the system.

O/P: who : Syntax

O/P: cse63 pts/1   2025-02-01   13:35 (172.16.53.161)

cse60 pts/2 2025-02-01   13:39 (172.16.53.162)

12. Display data about login details of the user

Syntax: id

O/P: uid: (1056)(cse 63) gid :1056 (cse 63) context = unconfined

u: unconfined_t : so-so: co. c1023

13. Used to know the terminal name that we are using.

Syntax. tty

O/P: /dev/pts/4.

14. Used to clear the terminal of your screen

syntax : clear

15. Gives you complete access to unix commands.

Syntax: man man.

⑥ ps command.

PID	TTY	TIME	CMD
2970	pts/4	00:00:00	bash
5254	pts/4	00:00:00	ps

17. uname -m   x86-64.
   uname -n fedora
   uname -msr => 6.2.15 - 100. fc36. x86-64
   uname -s => Linux
   uname -v => # SMP PREEMPT- DYNAMIC THU MAY 11
   uname -a =>   16.51.63 UTC 2023

      Linux fedora 6.2-16-100. fc36.x86-64 #1 SMP
         PREEMPT- DYNAMIC Thu May 11 16:51:53
                           UTC 2023 x86-64 x86-64 x86-64 GNC

Directory commands
   18. pwd commands:
         /home/cse 73.

   19. mkdir - commands.
         Syntax: mkdir rec.

   20. rmdir - commands.
         rmdir rec.

   21. cd commands
         cd rec.

   22. ls commands.
         ls -a.

File Handling Commands

1. cat commands

   cat > file

2. Display the contents of the file

   cat file.txt
3. hello
   cp command

   cp file.txt Meenakshi.txt

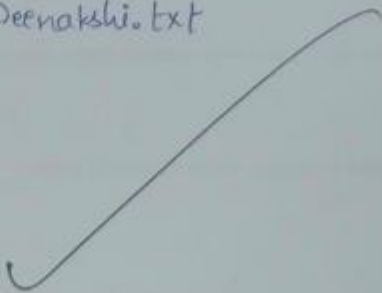4. rm rm command

   rm file.txt

5. mv command

   mv file.txt Meenakshi.txt

6. file command

   file rec.

7. wc command

    wc hie

        1   1   6   hie (words, lines, sentences)

8. Directing op to a file

        ls >kie

9. Pipes command.

        whol wc.
        2   10   88

10. tee command

        whol tee rec | wc

        O/P:- 28 140 1530.

11. command: ls n**

        O/P: rec rec.txt
             ls[a-m]*

                O/P: file 1

        ls [a-m]*

                O/P: student.

13. chmod -x cox file1

   O/P: restricts read, write & execute access file1

14. chmod + recox file1

   O/P: bjives read, write & execute access file1

Grouping Commands

1. Command: semicolon

        Command1 ; command2 :

            who ; date.

        O/P: root tty2   2025-02-01   13:35(tty2)

2. Command: && operator
            who && date.

        O/P: CSE 142   pts/1 2025-02-01   13:35 (172.16.52-176)

3. Command : || operation

   wholl date

   O/P: CSE42 p/s/o 2025-02-01 14-06 (172.16.52.148)

Filter commands

   1. head file1

      O/P: This is CSE

   2. tail file1

      O/P: This is CSE

   3. grep "CSE" student

      O1P
           Arun CSE
           Ram CSE
           Ram CSE

   4. sort student

      O/P:-
           Arun CSE
           Ram CSE
           Ram CSE.

   5. sort-r student

      O/P:- Ram CSE
             Kani CSE
             Arun CSE.

sort -n student

  O/P: Arun CSE

       Ram CSE

       Ram CSE.

sort -rn student

O/P: Arun CSE

      Ram CSE

sort -u student

  O/P: Arun CSE

      RAM CSE

6. ni student :-

    O/P :- 1. Arun Lse

        Ram cse

        Ram cse.

7. cut -c-1-3 student

    O/P: Arun

      Ram

      Ram.

1. Command: free -t

   O|P: total used free shared cache mem:-

   16092656 1706728 10851864 271276 3534062l

   swap: 8388604   6   8388604

   total 24481260 1706728 19240468.

2. Command: top

   O|P:

   PID user PR NI VIRT RES SHES %CPO %.MEM
   1 root 20 0   0   0   0 0.0   0.1

   TCME + COMMOND
   0:0.01   TOP.

Command vmstat

O/p process ==== memory ==== swap ---- swap -- Io --- system
==== CPU ====

r b swpd free buff cache MSO bibo in cs us
0 0 0   k83789 5628 3536216 00 Jo 254 43 46

sys id wat rt
0   0   99   1   0

Command:- df

O/P:- filesystem 1k-blocks used available use% Mounted on
tempfs   3218532 2332   321600   1%   /run.

command:- ping 172.16.53.115.

O/P: 64 bytes from 172.16.53.115: icmp_seq=1
ttl= 64 time= 0.027ms.

64 bytes from 172.16.53.115: imp_seq = 2 ttl =64
time:0.036ms.

command: ifconfig

  OIP: flags = 73<UP, loopBak, Roning 1 mtu 655 36

      inet: 127.0.01   netmask 255.0.0:0

      Intel: b: 1   prefixlen 128 copied 0x 10< host1

command: traceroute

      traceroute www. rajalakshmi.org.

      OIP: traceroute to www. rajdlakshmi.org (14.A.11h32)30

haps max, 60 byte packets 1. rajalakshmi.org (14.99.10.232)0.235n5

      0.199 my 0.192. ms.

Result:

The Unix/Linux commands successfully displayed system information, managed files, and performed navigation tasks, confirming the proper setup and functionality of the environment.