

Ex No: 1
Date: 23.01.2025

BASIC LINUX COMMANDS

1) Date Command:-
1) date + %m
Output:- 01
2) date + %d
Output:- Jan
3) date + %d
Output:- 30
4) date + %H
Output:- 13
5) date + %H
Output:- 11
6) date + %S
Output:- 30
2) Echo Command:-
echo "hi"
Output:- hi
3) BC Command:-
bc
1+2
Output:- 3
4) Cal Command
cal Sep 2005
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

5) Who Command:-
who
Output:- Student P1s10 2025-01-30 8:04 (+0)
Student P1s10 2025-01-30 13:38 (+0)
6) Who am i Command:-
who am i
Output:- Student P1s10 2025-01-30 13:38 (+0)
7) id Command:-
id
Output:- uid=1000 (student) gid=1000 (student) groups=1000 (student) context=unconfined-u:unconfined-v:unconfined-L:SO-SO,CO,C1023
8) tty Command:-
tty
Output:- /dev/pts/11
9) clear Command:-
clear
10) man Command:-
man clear

11) PS Command:-
PS -e
Output:- 3569 P1s10 00:00:00 PS
PS -aux
Output:- Student 3569 0.0 0.0 16672 3652 P1s10 P+ 10:00
12) Uname Command:-
uname -m -> i686
uname -n -> localhost.localdomain
uname -r -> 4.11.8-300.fc26.i686.pae
uname -s -> Linux
uname -v -> #1 SMP Thu Jun 29 20:38:21 UTC 2017
uname -a -> Linux localhost.localdomain 4.11.8-300.fc26.i686.pae #1 SMP Thu Jun 29 20:38:21 UTC 2017
i686 i686 GNU/Linux
1.2) Directory Commands:-
1) Pwd -> /home/Student
2) mkdir 163 ->
3) rm dir ->
4) cd 163 ->
5) ls: -> cd cse css Desktop Document Download Music HWI Picture P1s10

ls -l -> total 0
ls -a -> . . .
1.3) File Handling Commands.
1) Cat Command:-
cat > newfile.txt
Output:- Hi This is a new file.
2) Display Command:-
cat > newfile.txt
Output:- Hi This is a new file.
3) CP Command:-
cp oldfile.txt newfile.txt.
4) rm Command:-
rm newfile.txt.
5) mv Command:-
mv oldfile.txt newfile.txt.
6) File Command:-
file newfile.txt
Output:- newfile.txt: ASCII text

7. wc Command:-

wc newfile.txt

Output: 1 1 27 newfile.txt.

8) Redirecting output to a file.

ls > newfile.txt.

9) Pipes Command:-

who | wc -l

Output: 28

10) less Command:-

who | less newfile.txt | wc -l

Output: 28

11) Meta character of unix:-

1) ls n*.* newfile.txt

2) ls ?e*.* newfile.txt

3) ls [a-o]*.* newfile.txt

4) ls [a-o]*.* : IS: Cannot access '[a-o]*.*':
No Such File or directory.

12. chmod Commands:-

1) chmod -wx newfile.txt.

2) chmod +rwx newfile.txt.

3) chmod =wx newfile.txt.

13) Octal Notations Commands:-

chmod 761 newfile.txt

14) Grouping Commands:-

1) The Semicolon Command:

ls; date

Output: newfile.txt

Saturday 01 February 2025 02:43:29 PM

2) '+' operator:-

ls + date

Output: newfile.txt

Saturday 01 February 2025 02:43:15 PM IST

3) '||' operator:-

ls || date

Output: newfile.txt

1.5) Filters:-

1) Head Filter:-

head newfile.txt

Output: newfile.txt.

2) tail Filter:-

tail newfile.txt

Output: newfile.txt.

3) more Filter:-

ls -l | more.

Output: total 4

-rw-r--r-- 1 root 163 Feb 01 12:56

4) grep Command:-

grep file newfile.txt

Output: newfile.txt

5) Sort Command:-

sort newfile.txt

Output: newfile.txt.

6. nl Command:-

nl 163

Output: nl: 163: It is a directory.

7. Cut Command:-

Cut -c 2 newfile.txt

Output: e

Other essential Commands:-

1. Free:-

Output:-

	total	used	Free	shared	buff/cache
mem:	324192	68564	197100	209104	1102048
Swap:	2624264	0	2624264		

2. top:-

top - 14:06:27 up 24 min, 3 user, load average: 0.41, 0.34, 0.35

task: 199 total, 1 running, 160 sleeping, 0 stopped, 0 zombie.

1. cpu(s): 0.5us, 0.23s, 0.00m, 99.3id, 0.0wa, 0.2k, 0.00

