

I date commands and output

1. i) date

Thu Jan 30 13:40:07 IST 2025 .

ii) date +%m

01

iii) date +%h

Jan

iv) date +%d

30

v) date +%y

25

vi) date +%H

13

vii) date +%M

45

viii) date +%S

32

2. echo Hello world

Hello world

3. cal

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	

4. bc

16/8

2

5. who

student pts/0 2025-01-30 13:39 (:0)

student pts/1 2025-01-30 13:40 (:0)

6. who am i

student pts/1 2025-01-30 13:40 (:0)

7. id

wid=1000 (student) gid=1000 (student)

groups=1000 (student)

context=unconfined_u:unconfined_r:unconfined_t;

so-so:co . C1023

8. tty

/dev/pts/1

9. clear

[screen commands cleared]

10. man who

Name

who - show the system login details

Synopsis

who [option] ... [FILE] / ARG1 ARG2 ...

11. i) ps

PID	TTY	TIME	CMD
1602	pts/1	00:00:00	bash
1699	pts/1	00:00:00	ps

12. i) `uname -m`

i686

ii) `uname -n`

localhost.localdomain

iii) `uname -r`

4.11.8-300.fc26.i686-PAE

iv) `uname -s`

Linux

v) `uname -v`

#1 SMP Thu Jun 29 20:38:21 UTC 2017

vi) `uname -a`

Linux localhost.localdomain 4.11.8-300.fc26.i686-PAE #1 SMP Thu Jun 29 20:38:21 UTC 2017
i686 i686 i386 GNU/Linux

1.2) Directory commands

1. `pwd`

/home/student

2. `mkdir new`

[creates a new directory 'new']

3. `rmdir Music`

[removes directory 'Music']

4. `cd Downloads`

[changes pwd to 'Downloads']

5. ls

Desktop Downloads Documents Public Music
Pictures Templates Videos

1.3) File Handling commands

1. cat leapyr.sh

[shows the contents of 'leapyr.sh']

2. cat > new.txt

[creates a file 'new.txt']

3. cp old.txt new.txt

[copies contents of 'old.txt' to 'new.txt']

4. rm old.txt

[removes 'old.txt' file]

5. mv leapyr.sh new

[moves 'leapyr.sh' to 'new' directory]

6. file leapyr.sh

leapyr.sh: ASCII text

7. wc leapyr.sh

9 24 114 leapyr.sh

8. ls > list

[directs output to 'list' file]

9. who | wc leapyr.sh

9 29 114 leapyr.sh

10. who | tee sample | wc leapyr.sh

9 29 114 leapyr.sh

[stores the result of command in 'sample']

11. i) ls a**

rust rstudio

ii) ls ?kkk

[displays files whose 2nd character is 'kkk']

iii) ls [a-m]

[displays files whose names begin from 'a' to 'm']

iv) ls [!a-m]

[displays files whose names does not begin with 'a' to 'm']

12. v) ls college - rwxr-xr-x -- lak std

[the file is readable, writable and executable by the owner lak and the group owner std]

13. i) chmod u-rx leapyr.sh

[removes read and executable for users for 'leapyr.sh' file]

ii) chmod u+rwx, g+rwx leapyr.sh

[assigns read and write permissions for both users and groups for 'leapyr.sh' file]

14. chmod 761 sample

[Assigns all permissions to the owner, read and write permissions to the group and only executable permission to others for 'sample']

1.4) Grouping commands

1. who; date

```
student pts/0 2025-02-04 13:34 (10)
```

```
student pts/1 2025-02-04 13:34 (10)
```

```
Thu Feb 4 14:14:47 IST 2025
```

2. echo hello && date +%M

```
Hello
```

```
45
```

3. uname -s | pwd

```
Linux
```

```
home/ksdudata/ksdudata
```

1.5) Filters

1. head sample

```
hi
```

```
hello
```

```
world
```

2. tail sample

```
hi
```

```
hello
```

```
world
```

[displays last ten lines of 'sample']

3. |8-11 more

total 8

-----, 1 student student 114 Jan 31 14:37

leapyr.sh

-rw-rw-r-- 1 student student 0 Feb 4 13:54

sample

-rw-rw-r-- 1 student student 15 Feb 4 14:22

sam.txt

4. `grep "cse" student`

John cse

Alice cse

`grep "ece" student`

Bob ece

5. `sort -r student`

[displays contents of 'student' in reverse order]

i) `sort -c student`

[checks if 'student' is sorted]

ii) `sort -n student`

[sorts 'student' numerically]

iv) `sort -m student`

[sorts 'student' in reverse order]

i) John cse

bob ece

Alice cse

ii) sort: student: 2: disorder: Alice cse

iii) Alice cse

bob ece

John cse

iv) John cse

Alice cse

bob ece

v) sort -u student

John cse

Alice cse

Bob ece

[removes duplicates]

vi) sort -l student

[skips the column with +l option]

6. nl student

1. John cse

2. Alice cse

3. bob ece

1.5) other essential commands

1. free

	total	used	free	shared	buff/cache
Mem:	4016204	510960	2830608	68068	874636
	available				
	3264040				

swap: 3645436

0

3645436

2. top

[provides a real time dynamic view of processes in the system]

3. vmstat

[reports virtual memory statistics]

procs	memory	swap	...
r	b sup	free	...
1	0	0	67....

4. \$df

File system	1K-blocks	used	Available	...
devtmpfs	1997124	0	1997124	...
tmpfs	2008100	0	2008100	...

5. \$ping

ping [-L RU bd [Fng vv AD]] [-count

6. \$ifconfig

to	link	encap:	local	local
...