

Ex No: 1b)

Date: 24-01-2025

BASIC LINUX COMMANDS

1.1 GENERAL PURPOSE COMMANDS

1. The 'date' command:

The date command displays the current date with day of week, month, day, time (24 hours clock) and the year.

SYNTAX: \$ date

The date command can also be used with following format.

Format	Purpose	Example
+ %m	To display only month	\$ date + %m
+ %h	To display month name	\$ date + %h
+ %d	To display day of month	\$ date + %d
+ %y	To display last two digits of the year	\$ date + %y
+ %H	To display Hours	\$ date + %H
+ %M	To display Minutes	\$ date + %M
+ %S	To display Seconds	\$ date + %S

2. The echo command:

The echo command is used to print the message on the screen.

SYNTAX: \$ echo

EXAMPLE: \$ echo "God is Great"

3. The 'cal' command:

The cal command displays the specified month or year calendar.

SYNTAX: \$ cal [month] [year]

EXAMPLE: \$ cal Jan 2012

4. The 'bc' command:

1.1 General Purpose Commands

\$date + %m 01

\$date + %h Jan

\$date + %d 24

\$date + %Y 25

\$date + %H 14

\$date + %U 07

\$date + %S 42

\$echo "Hello"

hello

$\$bc$ $5 + 2$

quit

who

root pts/o 2017-06-28 03:12 (10)

User312 pts/1 2025-01-24 13:24 (112 111)

User 312 pbs/1
User 400 pbs/2

who am i

user312 pds/3 2025-01-24 13:33(172.16.9.18)

gid

$uid = 1313$ (cse 312) $gid = 1313$ (cse 312) $groups = 1313$ (cse 312)

\$man bc

bcd)

Name

bc - An arbitrary precision doubler language

SYNTAX

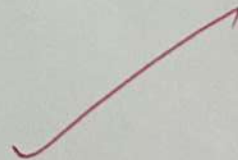
SYNTAX
bc [-hdwsgv]

Description

bc is a language that supports arbitrary precision numbers with iterator execution of statement

aps - e

PID	TTY	TIME	CMD
1	?	00:00:04	systemd
2	?	00:00:00	kthand
3	?	00:00:00	kw order/0:0H



\$ 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 -dc

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/csc312

2. mkdir ~~shankh~~ shyaam

3. \$ mkdir ~~shankh~~ shyaam

4. \$ cd ~~shankh~~ shyaam

5. \$ ls -l

1.3 File Handling Commands

1. \$cat >rec

Hello world

2. \$cat rec

Hello world

3. \$cat >rec vrv

Hello world

4. \$rm vrv

5. \$mv rec eee

Hello world

6. \$ file eee

ASCII text

7. \$ wc eee

1 2 12 vrt

8. \$ ls > vrt

9. \$ who/wc -l

2

10. \$ who/tee sample/wc -l

2

11. Meta characters of unix

→ \$ ls cse

→ \$ ls ?32

332

→ \$ ls [a-m]*

add aad.c a.out cse deep

Desktop:

home.desktop trash.desktop

→ \$ ls ~/a-b3*

230701313 332 cse deap prg

sample subject.txt

266:

test 3:

home.desktop trash.desktop

1.5 FILTERS

1. \$ head cse332

Good Morning everyone!!!

I am shyam.k.k

230701313

From CSE-P

This is OS Lab Manual

I am in Batch I

there are 38 students

→ \$ head -3 CSE313

Good Morning Everyone!!!

I am k.k.shyam

230701313

2. \$ tail -3 CSE313

This is OS Lab Manual

I am in Batch I

there are 38 students

3. $\oint ds \rightarrow 2 \text{ mae}$

313 CSE 313 UREUSE
CSE UREUSE

4. $\oint \text{grip 'cse' student}$
Shyam CSE

5. $\rightarrow \oint \text{Sort student}$

1

2

book

class

eraser

laptop

phone

$\rightarrow \text{sort-in student}$

phone

laptop

eraser

class

book

2

1

$\Rightarrow \text{Sort-in student}$

book

class

eraser

laptop
phone

1
2

6. of nl student

1 eraser

2 book

3 class

4 phone

5 laptop

6 1

7 2 ✓

```
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 to configure network interface.

syntax- ifconfig [options]

example

```
[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.

syntax- traceroute [options]

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 LINUX*

*the following commands for the general,
Directory, file handling, grouping, filter and
others essential commands have been observed
and executed successfully*