Ex No: 1b)

Date: 29/1/25

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

22222222222

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) date command
   $ date
   Fri Jan 24 13:52:58 IST 2025
   $ date + x m
   01
   & obte + x.h
    Jan
   $ date + x.a
   24
   $ date + 1. y
   25
   $ date + Y. H
   14
   $ date + 1. M
   39
   $ date + 7.5
   12
2) Echo Command
   $ echo "Praise the lord"
   Praise the Lord
3) cal command/
```

May 2004 BU MO TU We Thu Fo Sa 6 7 4 5 8 2 3 13 14 15 12 11 10 9 21 22 20

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24.

\$ cal May 2004

```
4) be command
  $ bc
  12+4
  16
$ who am i
              2025-01-24 13:38 (172.16.9.7)
 CSE301 Pts/20
$ id
uid = 1000 (Student) gid = 1000 (Student) groups = 1000 (Student)
$ tty
/dw/pts/1
$ clear
 $ PS
  PID
       TTY
            TIME CMD
            00:00:00 bash
 1521
       PtsL
            00:00:00
       PtsL
                      PS
 1555
 $ uname
  1 686
$ uname -n
  local host. local domain
$ Uname - 8
  4.11. 8-300. fc26. $686 + PAE
9 uname -s
Linus
```

\$ uname - V # 1 SMP THU JAN 30 20. \$ uname -a Show all the above five details.

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R. A. 1.2) Directory Command) \$ pwd T Thome 1 student T 9) \$ mkdbe 301 . \$ mkdbe 304 9 directory created. \$ 8 m due 301 deudory removed) \$ cd 304 6 [Student @ Local Host 304] \$ ls -a 301 bash-profile config Downloads gtkrc-2.0-kde4 · mogilla Public Student tests. txt txt file . Xauthority 3) File Handling Command. 1) \$ cat > trit. trit 2) & cat tati, tat This is file 1 3) \$ cp tati. tat tate. tat & cat tot2. toty This is file !

4. 9 m tote. tat

5. \$mv tat, tat tate.tat
\$ cat tate.tat

This file 1

6. \$ file to . tat to tat: ASCII tat.

\$ ls add. c a out sum. c a out que totat 108 to . tout & ls -> files \$ cat files a. out files Sample Sum.c sum. py to Ext tationtat 9. \$ ls/wc 8 8 61 who I tee sample I we collège 000 college ls 4* * : NC 11. oucall LB ls [a-m]* Ug college CSE book book 1

Desktop: flame - desktop.

- (3) & chmod u-wx t1.txt
 \$ chmod u+rw, g+rw t1.txt
 \$ chmod g=wx t1.txt
- 14) & ch mod 761 ti tat
- 1.4 Grouping commands

 - 2.) \$ who 22 date

 Student pts 10 2017 06-28 03:12 (:0)

 Student pts 1 2025-01-30 08:28 (:0)

 thu Jan 30 08:32:19 IST 2025
- 3.) 9 echo "hi!" "/ 1/ le

1.5 FILTERS 1. 9 head fills I tat this is the fill that is used to execute the 9 tail-5 file 1. txt Commands in this Command prompt. dum. tat 1 more \$ cat This Es

Shis
is
not
a
file
that
to
be
read

@ @

```
4)
              11 be" dum. tat
         grep
      be
                                $ sout -n to trut
5)
      & cat to tat
      this
                                  is
                                  operating
       弘
                                  08
       98
                                  Offer
      working
                                  system
      7456
                                   this
       Whethou
                                   working
        23
                                   23
        098
                                    23
        26
                                    76
       Other
                                    87
                                    98
        87
                                    7456
       & operating
        System
   $ sort -c ti. tat
      sort ti Ent: 2: disorder: is
 $ sort - u ti fxt
  23
  7456
  76
  98
 is
 operating
 05
Other
system
```

```
this
   Whether
    working
   & nl Entit
    1 this
       is
       98
      nos rung
      7456
    6 whether
    Cut-c 3-tl.txt
7.
     is
    uking
     56
     ether
     her
     Stem
                                Commands
               Essential
1.5
     Other
     free - t
 1.
                                            Free
                           used
             total
                                             453244
                             645488
             1994612
 Men:
                                            2129916
              2129916
  Swap .
                                            2583160
                            645488
              41 24528
 total
                            buff I cache
                                              available
              shared
                             895880
                                               1159132
               99192
```

2) \$top.

top - 09:31:06 up1:04 2 usors, Load awarage:0.006

010,011 tasks: 162 total, 1 surning, 162

Sleeping, 0 stopped, 6 zombre

2. Cpv (s): 0.3 us, 0.3 sy, 0.0 ni, 99.5 rd,

0.0 wa, 0.2 hi, 0.0 si, 0.0 st.

\$ PS

PID TTY Time CMD

1514 PESI/ 00:00:00 bash

2022 PESI/ 00:00:00 ps

7) & if config mp 3 so : flags = 4163 & Up, Boward Cast, surring, Mullicast, men 1500° met 172.16.9.20 6 netmask 955. 955. 955.0 broad cast 172.16.11.25 Emt fe 80: : 7616 : fd 3: f575 prufix lun c 64 Scopfed 0x20 2 link>) & traceroute Usage toraceroute [-46 dFITnere AUDV] [t foist_Etl] 6 5 [- g gate--] [p dwin] [-m max _ t t] [-N squerlis] [-p port] [-t ·tos] [-l flow_label] [-W MAX, HERE, NEAR] [-9, nquours] [-s socially [-2 Sedwait] [-- f w mark = num] host & packet 6

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

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It is used configure network interface.

synopsis- 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.

synopsis- 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

Hence the basic linux commands are executed and the output is obtained.

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