

Nama : Abdul Karim

Nim : 09011282429038

Kelas : SK3A

50 Command Line

1. Uname -a : Menampilkan informasi sistem

```
[akarim@localhost ~]$ uname -a
Linux localhost.localdomain 5.14.0-570.12.el9_6.x86_64 #1 SMP PREEMPT_DYNAMIC Tue May 13 06:11:55 EDT 2025 x86_64 x86_64 x86_64 GNU/Linux
[akarim@localhost ~]$
```

2. Hostname : Menampilkan nama komputer

```
[akarim@localhost ~]$ hostname
localhost.localdomain
[akarim@localhost ~]$
```

3. yes Linux | head -n 5 : Menampilkan kata Linux sebanyak 5 kali.

```
[akarim@localhost ~]$ yes linux | head -n 5
linux
linux
linux
linux
linux
[akarim@localhost ~]$
```

4. man date : Melihat manual penggunaan command date

```
DATE(1)                                User Commands                                DATE(1)

NAME
date - print or set the system date and time

SYNOPSIS
date [OPTION]... [+FORMAT]
date [-u|--utc|--universal] [+MMDDhhmm[[CC]YY][.ss]]

DESCRIPTION
Display the current time in the given FORMAT, or set the system date.
Mandatory arguments to long options are mandatory for short options too.

-d, --date=STRING
    display time described by STRING, not 'now'

--debug
    annotate the parsed date, and warn about questionable usage to stderr

-f, --file=DATEFILE
    like --date; once for each line of DATEFILE

-I[FM], --iso-8601=[FM]
    output date/time in ISO 8601 format.  FM='date' for date only (the default), 'hours', 'minutes', 'seconds', or 'ns' for date and time to the indicated precision.  Example:
    2006-08-14T02:34:56-0600

-R, --rfc-822
    output date and time in RFC 822 format.  Example: Mon, 14 Aug 2006 02:34:56 -0600

--rfc-3339=[FM]
    output date/time in RFC 3339 format.  FM='date', 'seconds', or 'ns' for date and time to the indicated precision.  Example: 2006-08-14 02:34:56-06:00

-r, --reference=FILE
    display the last modification time of FILE

-s, --set=STRING
    set time described by STRING

-u, --utc, --universal
    print or set Coordinated Universal Time (UTC)

--help
    display this help and exit

--version
    output version information and exit

FORMAT controls the output.  Interpreted sequences are:

%%      a literal %

Manual page date(1) line 1 (press h for help or q to quit)
```

5. echo -e "\x48\x65\x6c\x6c\x6f Linux" : file.bin: membuat file biner dengan kode heksadesimal (\x48\x65...) yang sebenarnya merepresentasikan teks Hello Linux.

```
[akarim@localhost ~]$ echo -e "\x48\x65\x6c\x6c\x6f Linux" > file.bin
[akarim@localhost ~]$
```

6. uname -m : Menampilkan arsitektur mesin (misalnya x86_64).

```
[akarim@localhost ~]$ uname -m
x86_64
[akarim@localhost ~]$
```

7. echo \$PATH: menampilkan PATH environment

```
[akarim@localhost ~]$ echo $PATH
/home/akarim/.local/bin:/home/akarim/bin:/usr/local/bin:/usr/local/sbin:/usr/bin:/usr/sbin
[akarim@localhost ~]$
```

8. w : Menampilkan user login dan aktivitasnya.

```
[akarim@localhost ~]$ w
05:31:16 up 1:30, 2 users, load average: 0.08, 0.05, 0.01
USER  TTY      LOGIN@  IDLE   JCPU   PCPU WHAT
akarim seat0    04:01    0.00s  0.00s  0.02s /usr/libexec/gdm-wayland-session --register-session gnome-session
akarim tty2     04:01    1:30m  0.12s  0.10s /usr/libexec/gnome-session-binary
[akarim@localhost ~]$
```

9. date : Menampilkan tanggal dan waktu

```
[akarim@localhost ~]$ date
Tue Sep 16 05:32:07 AM EDT 2025
[akarim@localhost ~]$
```

10. echo "Hay" > filehay.txt : Membuat file baru bernama filehay.txt dan menuliskan teks Hay di dalamnya.

```
[akarim@localhost ~]$ echo "hay" > filehay.txt
[akarim@localhost ~]$ cat filehay.txt
hay
[akarim@localhost ~]$
```

11. cat : Menampilkan konten file

```
[akarim@localhost ~]$ cat filehay.txt
hay
[akarim@localhost ~]$
```

12. echo "Halo" > filehalo.txt : membuat file baru bernama filehalo.txt dan menuliskan teks Halo di dalamnya.

```
[akarim@localhost ~]$ echo "Halo" > filehalo.txt
[akarim@localhost ~]$
```

13. diff file1.txt file2.txt : Membandingkan isi file baris demi baris.

```
[akarim@localhost ~]$ diff filehay.txt filehalo.txt
1c1
< hay
---
> Halo
[akarim@localhost ~]$
```

14. `cmp filehay.txt filehalo.txt` : Membandingkan isi dua file secara biner (byte per byte).

```
[akarim@localhost ~]$ cmp filehay.txt filehalo.txt
filehay.txt filehalo.txt differ: byte 1, line 1
[akarim@localhost ~]$
```

15. `printenv` : Menampilkan semua environment variable.

[illegible]

16. pwd : Menampilkan Posisi Direktori Saat Ini.

```
[akarim@localhost ~]$ pwd
/home/akarim
[akarim@localhost ~]$
```

17. uptime : Menampilkan lama system berjalan

```
[akarim@localhost ~]$ uptime
05:47:20 up 1:46, 2 users, load average: 0.00, 0.00, 0.00
[akarim@localhost ~]$
```

18. last reboot : menampilkan riwayat kapan sistem pernah direboot.

```
[akarim@localhost ~]$ last reebot
wtmp begins Thu Aug 28 12:39:57 2025
[akarim@localhost ~]$
```

19. `uname -o` : Menampilkan nama sistem operasi.

```
[akarim@localhost ~]$ uname -o
GNU/Linux
[akarim@localhost ~]$
```

20. history | head : Menampilkan beberapa command pertama di riwayat.

```
[akarim@localhost ~]$ history | head
1  sudo syu
2  sudo su
3  lshw
4  sudo
5  ls
6  mkdir test
7  ls
8  uname -a
9  clear
10 hostname
[akarim@localhost ~]$
```

21. echo \$HOME: Menampilkan direktori home

```
[akarim@localhost ~]$ echo $HOME
/home/akarim
[akarim@localhost ~]$
```

22. ls -l : Menampilkan Daftar File Dengan Detail

```
[akarim@localhost ~]$ ls -l
total 16
drwxr-xr-x. 2 akarim akarim  6 Aug 28 12:40 Desktop
drwxr-xr-x. 2 akarim akarim  6 Aug 28 12:40 Documents
drwxr-xr-x. 2 akarim akarim  6 Aug 28 12:40 Downloads
-rw-r--r--. 1 akarim akarim 28 Sep 16 04:17 file.bin
-rw-r--r--. 1 akarim akarim  5 Sep 16 05:39 filehalo.txt
-rw-r--r--. 1 akarim akarim  4 Sep 16 05:33 filehay.txt
drwxr-xr-x. 2 akarim akarim  6 Aug 28 12:40 Music
drwxr-xr-x. 2 akarim akarim 4096 Sep 16 05:50 Pictures
drwxr-xr-x. 2 akarim akarim  6 Aug 28 12:40 Public
drwxr-xr-x. 2 akarim akarim  6 Aug 28 12:40 Templates
drwxr-xr-x. 2 akarim akarim  6 Sep 14 21:33 test
drwxr-xr-x. 2 akarim akarim  6 Aug 28 12:40 Videos
[akarim@localhost ~]$
```

23. free : Menampilkan penggunaan RAM (tanpa format human-readable).

```
[akarim@localhost ~]$ free
              total        used        free      shared  buff/cache   available
Mem:          6147804      1367352      4373492        25612        673660      4780452
Swap:          2097148           0         2097148
[akarim@localhost ~]$
```

24. rev : membalik urutan karakter dalam teks.

```
[akarim@localhost ~]$ rev
Sistem operasi
isarepo metsiS
```

25. lsblk : Menampilkan daftar partisi disk

```
[akarim@localhost ~]$ lsblk
NAME                                MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
sda                                  8:0    0   20G  0 disk
├─sda1                              8:1    0    1G  0 part /boot
├─sda2                              8:2    0   19G  0 part
│   └─almalinux-root                253:0    0   17G  0 lvm  /
│       └─almalinux-swap            253:1    0    2G  0 lvm  [SWAP]
[akarim@localhost ~]$
```

26. ls : Menampilkan Daftar File Dan Folder.

```
[akarim@localhost ~]$ ls
Desktop Documents Downloads file.bin filehalo.txt filehay.txt Music Pictures Public Templates test Videos
[akarim@localhost ~]$
```

27. history | tail : Menampilkan beberapa command terakhir di riwayat.

```
[akarim@localhost ~]$ history | tail
74  clear
75  rev
76  clear
77  lsblk
78  clear
79  ls
80  clear
81  history | tai
82  clear
83  history | tail
[akarim@localhost ~]$
```

28. ps : Menampilkan proses yang sedang berjalan

```
[akarim@localhost ~]$ ps
  PID TTY          TIME CMD
 3164 pts/0    00:00:00 bash
 4747 pts/0    00:00:00 ps
[akarim@localhost ~]$
```

29. ls -a : Menampilkan Semua File Termasuk Yang Tersembunyi

```
[akarim@localhost ~]$ ls -a
.  ..  .bash_history  .bash_logout  .bash_profile  .bashrc  .cache  .config  .Desktop  .Documents  .Downloads  .file.ato  .filenla.txt  .filehay.txt  .lessdot  .local  .maildir  .Music  .Pictures  .Public  .Templates  .Text  .Videos
[akarim@localhost ~]$
```

30. df -h : menampilkan informasi penggunaan ruang disk (storage) dalam format yang mudah dibaca manusia (human-readable)

```
[akarim@localhost ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs         4.0M    0   4.0M   0% /dev
tmpfs            3.0G    0   3.0G   0% /dev/shm
tmpfs            1.2G  18M   1.2G   2% /run
/dev/mapper/almalinux-root 17G   5.6G   12G  33% /
/dev/sdal        960M  366M  595M  39% /boot
tmpfs            601M  104K  601M   1% /run/user/1000
[akarim@localhost ~]$
```

31. alias : Menampilkan daftar alias command

```
[akarim@localhost ~]$ alias
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l.='ls -d .* --color=auto'
alias ls='ls --color=auto'
alias xzgrep='xzgrep --color=auto'
alias xzfgrep='xzfgrep --color=auto'
alias xzgrep='xzgrep --color=auto'
alias zegrep='zegrep --color=auto'
alias zfgrep='zfgrep --color=auto'
alias zgrep='zgrep --color=auto'
[akarim@localhost ~]$
```

32. whoami: Menampilkan nama user

```
[akarim@localhost ~]$ whoami
akarim
[akarim@localhost ~]$
```

33. factor 100 : menampilkan faktor bilangan 100.

```
[akarim@localhost ~]$ factor 100
100: 2 2 5 5
[akarim@localhost ~]$
```

34. id : Menampilkan informasi user dan grup

```
[akarim@localhost ~]$ id
uid=1000(akarim) gid=1000(akarim) groups=1000(akarim) context=unconfined_u:unconfined_u:unconfined_u:zpg-zp:cq:ct053
[akarim@localhost ~]$
```

35. od -c filehay.txt: Menampilkan isi file dalam format kode ASCII (octal/karakter)

```
[akarim@localhost ~]$ od -c filehay.txt
0000000  h  a  y  \n
0000004
[akarim@localhost ~]$
```

36. echo "Hello Linux" : Menampilkan teks kelayar

```
[akarim@localhost ~]$ echo "hello world"
hello world
[akarim@localhost ~]$
```

37. top : Menampilkan proses system secara real-time

```
top - 09:00:00 up 10 days, 10:00, user 0.01, load 0.00, 0.00, 0.00
  PID TID          PPID    PID   USER     VIRT  RES  SHR S %CPU  %MEM    TIME+  COMMAND
    1   1          0      1    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
    2   2          0      2    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
    3   3          0      3    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
    4   4          0      4    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
    5   5          0      5    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
    6   6          0      6    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
    7   7          0      7    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
    8   8          0      8    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
    9   9          0      9    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   10  10          0     10    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   11  11          0     11    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   12  12          0     12    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   13  13          0     13    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   14  14          0     14    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   15  15          0     15    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   16  16          0     16    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   17  17          0     17    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   18  18          0     18    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   19  19          0     19    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   20  20          0     20    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   21  21          0     21    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   22  22          0     22    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   23  23          0     23    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   24  24          0     24    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   25  25          0     25    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   26  26          0     26    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   27  27          0     27    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   28  28          0     28    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   29  29          0     29    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   30  30          0     30    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   31  31          0     31    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   32  32          0     32    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   33  33          0     33    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   34  34          0     34    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   35  35          0     35    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   36  36          0     36    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   37  37          0     37    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   38  38          0     38    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   39  39          0     39    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   40  40          0     40    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   41  41          0     41    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   42  42          0     42    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   43  43          0     43    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   44  44          0     44    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   45  45          0     45    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   46  46          0     46    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   47  47          0     47    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   48  48          0     48    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   49  49          0     49    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   50  50          0     50    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   51  51          0     51    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   52  52          0     52    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   53  53          0     53    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   54  54          0     54    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   55  55          0     55    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   56  56          0     56    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   57  57          0     57    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   58  58          0     58    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   59  59          0     59    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   60  60          0     60    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   61  61          0     61    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   62  62          0     62    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   63  63          0     63    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   64  64          0     64    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   65  65          0     65    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   66  66          0     66    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   67  67          0     67    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   68  68          0     68    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   69  69          0     69    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   70  70          0     70    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   71  71          0     71    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   72  72          0     72    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   73  73          0     73    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   74  74          0     74    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   75  75          0     75    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   76  76          0     76    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   77  77          0     77    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   78  78          0     78    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   79  79          0     79    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   80  80          0     80    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   81  81          0     81    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   82  82          0     82    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   83  83          0     83    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   84  84          0     84    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   85  85          0     85    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   86  86          0     86    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   87  87          0     87    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   88  88          0     88    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   89  89          0     89    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   90  90          0     90    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   91  91          0     91    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   92  92          0     92    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   93  93          0     93    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   94  94          0     94    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   95  95          0     95    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   96  96          0     96    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   97  97          0     97    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   98  98          0     98    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
   99  99          0     99    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
  100 100          0    100    root      0K    0K    0   0   0.0   0.0   0:00.00  systemd
```

38. free -h : menampilkan penggunaan RAM

```
[akarim@localhost ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           5.9Gi       1.4Gi       2.9Gi       36Mi       1.8Gi       4.4Gi
Swap:          2.0Gi           0B       2.0Gi
[akarim@localhost ~]$
```

39. Uname -r : Menampilkan versi kernel linux

```
[akarim@localhost ~]$ uname -r
5.14.0-570.12.1.el9_6.x86_64
[akarim@localhost ~]$
```

40. strings file.bin: Menampilkan teks yang bisa dibaca dari file biner.

```
[akarim@localhost ~]$ strings file.bin
/x48/x65/x6c/x6c/x6f/ Linux
[akarim@localhost ~]$
```

41. alias ll='ls -lh' : Membuat alias sederhana untuk ls -lh.

```
[akarim@localhost ~]$ alias ll='ls -lh'
[akarim@localhost ~]$ alias
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l.='ls -d .* --color=auto'
alias ll='ls -lh'
alias ls='ls --color=auto'
alias xzgrep='xzgrep --color=auto'
alias xzfgrep='xzfgrep --color=auto'
alias xzgrep='xzgrep --color=auto'
alias zegrep='zegrep --color=auto'
alias zfgrep='zfgrep --color=auto'
alias zgrep='zgrep --color=auto'
[akarim@localhost ~]$
```

42. groups : Menampilkan grup yang diikuti user

```
[akarim@localhost ~]$ groups
akarim wheel
[akarim@localhost ~]$
```

43. seq 1 10 : Menampilkan angka 1 sampai 10 berurutan.

```
[akarim@localhost ~]$ seq 1 10
1
2
3
4
5
6
7
8
9
10
[akarim@localhost ~]$
```

44. who : Menampilkan siapa saja user dan grup

```
[akarim@localhost ~]$ who
akarim  seat0      2025-09-16 04:01 (login screen)
akarim  tty2        2025-09-16 04:01 (tty2)
[akarim@localhost ~]$
```

45. man ls : Melihat manual command ls

```
ls(1)                                User Commands
NAME
  ls - list directory contents
SYNOPSIS
  ls [OPTION]... [FILE]...
DESCRIPTION
  List information about the FILES (the current directory by default).  Sort entries alphabetically if none of -cfuvSUk nor --sort is specified.

  Mandatory arguments to long options are mandatory for short options too.

  -a, --all
    do not ignore entries starting with .
  -A, --almost-all
    do not list implied . and ..
  --author
    with -l, print the author of each file
  -b, --escape
    print C-style escapes for nongraphical characters
  --block-size=SIZE
    with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE format below
  -B, --ignore-backups
    do not list implied entries ending with ~
  -c with -lt: sort by, and show, ctime (time of last modification of file status information); with -li show ctime and sort by name; otherwise: sort by ctime, newest first
  -C
    list entries by columns
  --color[=WHEN]
    colorize the output; WHEN can be 'always' (default if omitted), 'auto', or 'never'; more info below
  -d, --directory
    list directories themselves, not their contents
  -D, --dired
    generate output designed for Emacs' dired mode
  -f
    do not sort, enable -u, disable -ls --color
  -F, --classify
    append indicator (one of */>@) to entries
  --file-type
    likewise, except do not append '*'
Manual page ls(1) line 1 (press h for help or q to quit)
```

46. last : Menampilkan riwayat login user

```
[akarim@localhost ~]$ last
akarim    tty2          tty2          Tue Sep 16 04:01    still logged in
akarim    seat0         login screen  Tue Sep 16 04:01    still logged in
reboot    system boot   5.14.0-570.12.1. Tue Sep 16 04:01    still running
akarim    tty2          tty2          Sun Sep 14 21:32    - crash (1+06:28)
akarim    seat0         login screen  Sun Sep 14 21:32    - crash (1+06:28)
reboot    system boot   5.14.0-570.12.1. Sun Sep 14 21:31    still running
reboot    system boot   5.14.0-570.12.1. Sun Sep 14 21:30    still running
akarim    tty2          tty2          Sat Sep 13 21:21    - crash (1+00:08)
akarim    seat0         login screen  Sat Sep 13 21:21    - crash (1+00:08)
reboot    system boot   5.14.0-570.12.1. Sat Sep 13 21:19    still running
reboot    system boot   5.14.0-570.12.1. Thu Sep 11 21:47    still running
akarim    tty2          tty2          Thu Aug 28 21:20    - crash (14+00:26)
akarim    seat0         login screen  Thu Aug 28 21:20    - crash (14+00:26)
reboot    system boot   5.14.0-570.12.1. Thu Aug 28 21:19    still running
akarim    tty2          tty2          Thu Aug 28 21:02    - crash (00:17)
akarim    seat0         login screen  Thu Aug 28 21:02    - crash (00:17)
reboot    system boot   5.14.0-570.12.1. Thu Aug 28 21:01    still running
akarim    tty2          tty2          Thu Aug 28 12:40    - down (00:01)
akarim    seat0         login screen  Thu Aug 28 12:40    - down (00:01)
reboot    system boot   5.14.0-570.12.1. Thu Aug 28 12:39    - 12:42 (00:02)

wtm begins Thu Aug 28 12:39:57 2025
[akarim@localhost ~]$
```

47. cal -y : Menampilkan kalender 1 tahun penuh.

```
[akarim@localhost ~]$ cal -y
2025

January          February         March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
    1  2  3  4          1  2  3  4  5  6  7  8          1
 5  6  7  8  9 10 11    2  3  4  5  6  7  8          2  3  4  5  6  7  8
12 13 14 15 16 17 18    9 10 11 12 13 14 15    9 10 11 12 13 14 15
19 20 21 22 23 24 25    16 17 18 19 20 21 22    16 17 18 19 20 21 22
26 27 28 29 30 31      23 24 25 26 27 28      23 24 25 26 27 28 29
                                30 31

April            May              June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
    1  2  3  4  5          1  2  3          1  2  3  4  5  6  7
 6  7  8  9 10 11 12      4  5  6  7  8  9 10      8  9 10 11 12 13 14
13 14 15 16 17 18 19     11 12 13 14 15 16 17    15 16 17 18 19 20 21
20 21 22 23 24 25 26     18 19 20 21 22 23 24    22 23 24 25 26 27 28
27 28 29 30          25 26 27 28 29 30 31    29 30

July             August            September
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
    1  2  3  4  5          1  2          1  2  3  4  5  6
 6  7  8  9 10 11 12      3  4  5  6  7  8  9      7  8  9 10 11 12 13
13 14 15 16 17 18 19     10 11 12 13 14 15 16    14 15 16 17 18 19 20
20 21 22 23 24 25 26     17 18 19 20 21 22 23    21 22 23 24 25 26 27
27 28 29 30 31          24 25 26 27 28 29 30    28 29 30
                                31

October          November         December
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
    1  2  3  4          1          1  2  3  4  5  6
 5  6  7  8  9 10 11    2  3  4  5  6  7  8      7  8  9 10 11 12 13
12 13 14 15 16 17 18    9 10 11 12 13 14 15    14 15 16 17 18 19 20
19 20 21 22 23 24 25    16 17 18 19 20 21 22    21 22 23 24 25 26 27
26 27 28 29 30 31      23 24 25 26 27 28 29    28 29 30 31
                                30
```


48. ls --help : Menampilkan bantuan singkat tentang command ls

```
[akarim@localhost ~]$ ls --help
Usage: ls [OPTION]... [FILE]...
List information about the FILES (the current directory by default).
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.
  -a, --all                do not ignore entries starting with .
  -A, --almost-all        do not list implied . and ..
  -author                 with -l, print the author of each file
  -b, --escape             print C-style escapes for nongraphic characters
  --block-size=SIZE       with -l, scale sizes by SIZE when printing them;
                          e.g., --block-size=M; see SIZE format below
  -B, --ignore-backups    do not list implied entries ending with ~
  -C                      with -lt: sort by, and show, ctime (time of last
                          modification of file status information);
                          with -l: show ctime and sort by name;
                          otherwise: sort by ctime, newest first
  -C                      list entries by columns
  --color[=WHEN]          colorize the output; WHEN can be 'always' (default
                          if omitted), 'auto', or 'never'; more info below
  -d, --directory          list directories themselves, not their contents
  -D, --dired              generate output designed for Emacs' dired mode
  -f                      do not sort, enable -au, disable -ls --color
  -F, --classify           append indicator (one of */=>@|) to entries
                          likewise, except do not append '*'
  --file-type              across -a, commas -n, horizontal -x, long -l,
  --format=WORD            single-column -l, verbose -l, vertical -C
                          like -l --time-style=full-iso
  --full-time              like -l, but do not list owner
  --group-directories-first
                          group directories before files;
                          can be augmented with a --sort option, but any
                          use of --sort=none (-U) disables grouping
  -G, --no-group           in a long listing, don't print group names
  -h, --human-readable     with -l and -s, print sizes like 1K 234M 2G etc.
  --si                    likewise, but use powers of 1000 not 1024
  -H, --dereference-command-line
                          follow symbolic links listed on the command line
  --dereference-command-line-symlink-to-dir
                          follow each command line symbolic link
                          that points to a directory
  --hide=PATTERN           do not list implied entries matching shell PATTERN
                          (overridden by -a or -A)
  --hyperlink[=WHEN]      hyperlink file names; WHEN can be 'always'
                          (default if omitted), 'auto', or 'never'
  --indicator-style=WORD  append indicator with style WORD to entry names:
                          none (default), slash (-p),
                          file-type (--file-type), classify (-F)
  -l, --inode              print the index number of each file
  -I, --ignore=PATTERN    do not list implied entries matching shell PATTERN
  -k, --kibibytes          default to 1024-byte blocks for disk usage;
                          used only with -s and per directory totals
  -L                      use a long listing format
```

49. lspci : Menampilkan daftar perangkat PCI (misalnya VGA, sound card).

```
[akarim@localhost ~]$ lspci
00:00.0 Host bridge: Intel Corporation 440FX - 82441FX PMC [Natoma] (rev 02)
00:01.0 ISA bridge: Intel Corporation 82371SB PIIX3 ISA [Natoma/Triton II]
00:01.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
00:02.0 VGA compatible controller: VMware SVGA II Adapter
00:03.0 Ethernet controller: Intel Corporation 82540EM Gigabit Ethernet Controller (rev 02)
00:04.0 System peripheral: InnoTek Systemberatung GmbH VirtualBox Guest Service
00:05.0 Multimedia audio controller: Intel Corporation 82801AA AC'97 Audio Controller (rev 01)
00:06.0 USB controller: Apple Inc. KeyLargo/Intrepid USB
00:07.0 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 08)
00:0b.0 USB controller: Intel Corporation 82801FB/GBM/FR/FW/FRW (ICH6 Family) USB2 EHCI Controller
00:0d.0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Controller [AHCI mode] (rev 02)
[akarim@localhost ~]$
```

50. ip a : Untuk menampilkan ip address

```
[akarim@localhost ~]$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:db:5b:16 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 72982sec preferred_lft 72982sec
    inet6 fd17:625c:f037:2:a00:27ff:fedb:5b16/64 scope global dynamic noprefixroute
        valid_lft 86167sec preferred_lft 14167sec
    inet6 fe80::a00:27ff:fedb:5b16/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[akarim@localhost ~]$
```