

PRAKTIKUM SO MODUL 5

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```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
Hit:3 http://id.archive.ubuntu.com/ubuntu bionic InRelease
Hit:4 http://ppa.launchpad.net/numix/ppa/ubuntu bionic InRelease
Get:5 http://id.archive.ubuntu.com/ubuntu bionic-updates InRelease [88,7 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu bionic-backports InRelease [74,6 kB]
Fetched 163 kB in 4s (41,2 kB/s)
Reading package lists... Done
root@kayonpc27:/home/kayon-pc27# sudo apt-get -y upgrade
E: dpkg was interrupted; you must manually run 'sudo dpkg --configure -a' to correct the problem.
root@kayonpc27:/home/kayon-pc27# clear

root@kayonpc27:/home/kayon-pc27# echo halo dunia
halo dunia
root@kayonpc27:/home/kayon-pc27# date
Kam Okt 16 07:56:36 WIB 2019
root@kayonpc27:/home/kayon-pc27# hostname
kayonpc27
root@kayonpc27:/home/kayon-pc27# arch
x86_64
root@kayonpc27:/home/kayon-pc27# uname -a
Linux kayonpc27 4.18.0-22-generic #23~18.04.1-Ubuntu SMP Thu Jun 6 08:37:25 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
root@kayonpc27:/home/kayon-pc27# dmesg | more
[    0.000000] microcode: microcode updated early to revision 0x27, date = 2019-02-26
[    0.000000] Linux version 4.18.0-22-generic (buildd@lgw01-amd64-033) (gcc version 7.3.0 (Ubuntu 7.3.0-16ubuntu3)) #23~18.04.1-Ubuntu SMP Thu Jun 6 08:37:25 UTC 2019 (Ubuntu 4.18.0-22.23-18.04.1-generic 4.18.20)
[    0.000000] Command Line: BOOT_IMAGE=/boot/vmlinuz-4.18.0-22-generic root=UUID=0639a0f7-ae51-45b3-ac46-43c68764f408 ro quiet splash vt.handoff=1
[    0.000000] KERNEL supported cpus:
[    0.000000]   Intel GenuineIntel
[    0.000000]   AMD AuthenticAMD
[    0.000000]   Centaur CentaurHauls
[    0.000000] x86/fpu: Supporting XSAVE feature 0x0001: 'x87 floating point registers'
[    0.000000] x86/fpu: Supporting XSAVE feature 0x0002: 'SSE registers'
[    0.000000] x86/fpu: Supporting XSAVE feature 0x0004: 'AVX registers'
[    0.000000] x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
[    0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'standard' format.
[    0.000000] BIOS-provided physical RAM map:
[    0.000000] BIOS-e820: [mem 0x0000000000000000-0x0000000000000000] usable
[    0.000000] BIOS-e820: [mem 0x000000000095d500-0x000000000095ffff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000e0000-0x000000000fffff] reserved
[    0.000000] BIOS-e820: [mem 0x000000000100000-0x00000000cb0f3fff] usable
[    0.000000] BIOS-e820: [mem 0x00000000cb0f4000-0x00000000cb0fafff] ACPI NVS
[    0.000000] BIOS-e820: [mem 0x00000000cb0fb000-0x00000000cb54bfff] usable
[    0.000000] BIOS-e820: [mem 0x00000000cb54c000-0x00000000cb97efff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000cb97ff00-0x00000000dd7c7fff] usable
[    0.000000] BIOS-e820: [mem 0x00000000dd7c8000-0x00000000dd9d0fff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000dd9d1000-0x00000000dd9d9fff] ACPI data
[    0.000000] BIOS-e820: [mem 0x00000000dd9d9fff-0x00000000dd9d9fff] reserved
[    0.000000] Menyiapkan Programming E... Untitled 1 - LibreOffice Writer [Screenshot_2019-10-09_17-... Pictures - File Manager Terminal - root@kayonpc27:/... 10 Okt, 08:01
```

```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
top - 08:01:25 up 39 min, 1 user, load average: 0,14, 0,11, 0,10
Tasks: 196 total, 1 running, 147 sleeping, 0 stopped, 0 zombie
%CPU(s): 2,3 us, 0,3 sy, 0,0 ni, 97,3 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 8166416 total, 5530836 free, 1225332 used, 1351048 buff/cache
KiB Swap : 947080 total, 947080 free, 0 used. 6497016 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
873 root 20 0 435672 85736 64596 S 5,0 1,1 1:26.91 Xorg
2758 kayon-pc27 20 0 813328 45444 31488 S 5,0 0,6 0:06.91 xfce4-terminal
5111 kayon-pc27 20 0 2677364 184952 122816 S 1,3 2,3 0:11.99 Web Content
890 root 20 0 0 0 0 S 0,3 0,0 0:02.61 nv_queue
1414 kayon-pc27 20 0 191124 21980 17724 S 0,3 0,3 0:04.37 xfwm4
1790 kayon-pc27 20 0 706720 34932 27616 S 0,3 0,4 0:02.15 panel-9-pulseau
3458 kayon-pc27 20 0 2650232 150564 101168 S 0,3 1,9 0:14.30 Web Content
3524 kayon-pc27 20 0 2861804 204612 116380 S 0,3 2,5 0:23.02 Web Content
1 root 20 0 225440 9364 6884 S 0,0 0,1 0:01.43 systemd
2 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kthreadd
3 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 rcu_gp
4 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 rcu_par_gp
6 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/0:0H-kb
8 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 mm_percpu_wq
9 root 20 0 0 0 0 S 0,0 0,0 0:00.01 ksftflrqd/0
10 root 20 0 0 0 0 I 0,0 0,0 0:00.46 rcu_sched
11 root 20 0 0 0 0 I 0,0 0,0 0:00.00 rcu_bh
12 root rt 0 0 0 S 0,0 0,0 0:00.00 migration/0
13 root rt 0 0 0 S 0,0 0,0 0:00.00 watchdog/0
14 root 20 0 0 0 S 0,0 0,0 0:00.00 cpuhp/0
15 root 20 0 0 0 S 0,0 0,0 0:00.00 cpuhp/1
16 root rt 0 0 0 S 0,0 0,0 0:00.00 watchdog/1
17 root rt 0 0 0 S 0,0 0,0 0:00.00 migration/1
18 root 20 0 0 0 S 0,0 0,0 0:00.01 ksftflrqd/1
19 root 20 0 0 0 0 I 0,0 0,0 0:00.04 kworker/1:0-mm-
20 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/1:0H-kb
21 root 20 0 0 0 S 0,0 0,0 0:00.00 cpuhp/2
22 root rt 0 0 0 S 0,0 0,0 0:00.00 watchdog/2
23 root rt 0 0 0 S 0,0 0,0 0:00.00 migration/2
24 root 20 0 0 0 S 0,0 0,0 0:00.01 ksftflrqd/2
26 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/2:0H-kb
27 root 20 0 0 0 S 0,0 0,0 0:00.00 cpuhp/3
28 root rt 0 0 0 S 0,0 0,0 0:00.00 watchdog/3
29 root rt 0 0 0 S 0,0 0,0 0:00.00 migration/3
30 root 20 0 0 0 S 0,0 0,0 0:00.01 ksftflrqd/3
32 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/3:0H-kb
33 root 20 0 0 0 S 0,0 0,0 0:00.00 kdevtmpfs
34 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 netns
```

```

Terminal - root@kayonpc27: /home/kayon-pc27

File Edit View Terminal Tabs Help
--More--
Most commands optionally preceded by integer argument k. Defaults in brackets.
Star (*) indicates argument becomes new default.

<space>           Display next k lines of text [current screen size]
z                  Display next k lines of text [current screen size]*
<return>          Display next k lines of text [1]*
d or ctrl-D       Scroll k lines [current scroll size, initially 11]*
q or Q or <interrupt> Exit from more
s                  Skip forward k lines of text [1]
f                  Skip forward k screenfuls of text [1]
b or ctrl-B       Skip backwards k screenfuls of text [1]
'                 Go to place where previous search started
=                 Display current line number
/<regular expression> Search for kth occurrence of regular expression [1]
n                 Search for kth occurrence of last r.e [1]
!<cmd> or :!<cmd> Execute <cmd> in a subshell
v                 Start up /usr/bin/vi at current line
ctrl-L            Redraw screen
:n                Go to kth next file [1]
:p                Go to kth previous file [1]
:f                Display current file name and line number
.                 Repeat previous command

[ 0.000000] D0000-E7FFF uncachable
--More--
Most commands optionally preceded by integer argument k. Defaults in brackets.
Star (*) indicates argument becomes new default.

<space>           Display next k lines of text [current screen size]
z                  Display next k lines of text [current screen size]*
<return>          Display next k lines of text [1]*
d or ctrl-D       Scroll k lines [current scroll size, initially 11]*
q or Q or <interrupt> Exit from more
s                  Skip forward k lines of text [1]
f                  Skip forward k screenfuls of text [1]
b or ctrl-B       Skip backwards k screenfuls of text [1]
'                 Go to place where previous search started
=                 Display current line number
/<regular expression> Search for kth occurrence of regular expression [1]
n                 Search for kth occurrence of last r.e [1]
!<cmd> or :!<cmd> Execute <cmd> in a subshell
v                 Start up /usr/bin/vi at current line
ctrl-L            Redraw screen
:n                Go to kth next file [1]
:p                Go to kth previous file [1]

Menyiapkan Programming E... Untitled 1 - LibreOffice Writer [Screenshot_2019-10-09_17... Pictures - File Manager Terminal - root@kayonpc27: /... 10 Okt, 08:02

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Terminal - root@kayonpc27: /home/kayon-pc27

File Edit View Terminal Tabs Help
Repeat previous command

[ 0.000000] E8000-FFFFF write-protect
[ 0.000000] MTRR variable ranges enabled:
[ 0.000000] 0 base 0000000000 mask 7E00000000 write-back
root@kayonpc27:/home/kayon-pc27# uptime
07:57:19 up 35 min, 1 user, load average: 0,05, 0,10, 0,12
root@kayonpc27:/home/kayon-pc27# whoami
root
root@kayonpc27:/home/kayon-pc27# who
kayon-pc27 tty7 2019-10-10 07:22 (:0)
root@kayonpc27:/home/kayon-pc27# last
kayon-pc tty7 :0 Thu Oct 10 07:22 gone - no logout
reboot system boot 4.18.0-22-generic Thu Oct 10 07:21 still running
kayon-pc tty7 :0 Wed Oct 9 16:33 - 17:33 (01:00)
reboot system boot 4.18.0-22-generic Wed Oct 9 23:32 - 17:33 (-5:59)
kayon-pc tty7 :0 Tue Oct 8 23:14 - 17:29 (-5:45)
reboot system boot 4.18.0-22-generic Tue Oct 8 23:14 - 17:29 (-5:45)

wtmp begins Tue Oct 8 15:34:41 2019
root@kayonpc27:/home/kayon-pc27# finger
Command 'finger' not found, but can be installed with:
apt install finger
root@kayonpc27:/home/kayon-pc27# finger
Command 'finger' not found, but can be installed with:
apt install finger

root@kayonpc27:/home/kayon-pc27# w
07:59:51 up 38 min, 1 user, load average: 0,12, 0,10, 0,10
USER TTY FROM LOGIN@ IDLE PCPU WHAT
kayon-pc tty7 :0 07:22 37:52 1:22 0.02s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayonpc27:/home/kayon-pc27# top
top - 08:03:23 up 41 min, 1 user, load average: 0,13, 0,12, 0,10
Tasks: 197 total, 1 running, 147 sleeping, 0 stopped, 0 zombie
CPU(s): 2,8 us, 1,3 sy, 8,8 ni, 55,9 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem: 8106416 total, 5642648 free, 11111624 used, 1352744 buff/cache
KiB Swap: 947800 total, 947800 free, 0 used. 6609360 avail Mem

PID USER PR NI VIRT RES SHR %CPU %MEM TIME+ COMMAND
873 root 20 0 443864 87228 66088 S 7,0 1,1 1:134,81 Xorg
[ 0.000000] D0000-E7FFF uncachable
Menyiapkan Programming E... Untitled 1 - LibreOffice Writer [Screenshot_2019-10-09_17... Pictures - File Manager Terminal - root@kayonpc27: /... 10 Okt, 08:03

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Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
top - 08:03:32 up 41 min, 1 user, load average: 0.11, 0.11, 0.10
Tasks: 197 total, 1 running, 147 sleeping, 0 stopped, 0 zombie
%CPU(s): 6.4 us, 0.6 sy, 0.0 ni, 52.4 id, 0.4 wa, 0.0 hi, 0.2 si, 0.0 st
KiB Mem : 8106416 total, 5642532 free, 1110568 used, 1352916 buff/cache
KiB Swap: 947800 total, 947800 free, 0 used, 6609916 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
873 root 20 0 443864 87228 66088 S 4.0 1.1 1:35.35 Xorg
2758 kayon-p+ 20 0 813328 45444 31488 S 2.0 0.6 0:11.60 xfce4-terminal
3524 kayon-p+ 20 0 2861804 204520 116380 S 0.7 2.5 0:23.55 Web Content
1414 kayon-p+ 20 0 191124 21980 17724 S 0.3 0.3 0:04.96 xfwm4
1506 kayon-p+ 20 0 389364 18492 15644 S 0.3 0.2 0:00.33 xsessionsd
1615 kayon-p+ 20 0 220772 6980 6268 S 0.3 0.1 0:00.58 at-spi2-registr
1790 kayon-p+ 20 0 706728 34932 27616 S 0.3 0.4 0:02.27 panel-9-pulseau
3458 kayon-p+ 20 0 2650232 150488 101168 S 0.3 1.9 0:14.55 Web Content
6101 root 20 0 51776 4144 3400 R 0.3 0.1 0:00.88 top
 1 root 20 0 225440 9364 6884 S 0.0 0.1 0:01.43 systemd
 2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd
 3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp
 4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_par_gp
 5 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-kb
 8 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq
 9 root 20 0 0 0 0 S 0.0 0.0 0:00.01 ksoftirqd/0
10 root 20 0 0 0 0 I 0.0 0.0 0:00.48 rcu_sched
11 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_bh
12 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/0
13 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/0
14 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
15 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1
16 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/1
17 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/1
18 root 20 0 0 0 0 S 0.0 0.0 0:00.01 ksoftirqd/1
19 root 20 0 0 0 0 I 0.0 0.0 0:00.04 kworker/1:0-mm_
20 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-kb
21 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/2
22 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/2
23 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/2
24 root 20 0 0 0 0 S 0.0 0.0 0:00.01 ksoftirqd/2
26 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/2:0H-kb
27 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/3
28 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/3
29 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/3
30 root 20 0 0 0 0 S 0.0 0.0 0:00.01 ksoftirqd/3
32 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/3:0H-kb
33 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs

```

```

Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
1418 kayon-p+ 20 0 417104 29976 23356 S 0.7 0.4 0:02.51 xfce4-panel
10 root 20 0 0 0 0 I 0.3 0.0 0:00.49 rcu_sched
890 root 20 0 0 0 0 S 0.3 0.0 0:02.80 nv_queue
1414 kayon-p+ 20 0 191124 21980 17724 S 0.3 0.3 0:05.01 xfwm4
3458 kayon-p+ 20 0 2650232 150488 101168 S 0.3 1.9 0:14.58 Web Content
3524 kayon-p+ 20 0 2861804 204520 116380 S 0.3 2.5 0:23.62 Web Content
4954 kayon-p+ 20 0 2620652 148160 106352 S 0.3 1.8 0:04.20 Web Content
5111 kayon-p+ 20 0 2677364 186152 122816 S 0.3 2.3 0:12.29 Web Content
6101 root 20 0 51776 4144 3400 R 0.3 0.1 0:01.00 top
 1 root 20 0 225440 9364 6884 S 0.0 0.1 0:01.43 systemd
 2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd
 3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp
 4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_par_gp
 6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-kb
 9 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq
 9 root 20 0 0 0 0 S 0.0 0.0 0:00.01 ksoftirqd/0
11 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_bh
12 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/0
13 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/0
14 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
15 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1
16 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/1
17 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/1
18 root 20 0 0 0 0 S 0.0 0.0 0:00.01 ksoftirqd/1
19 root 20 0 0 0 0 I 0.0 0.0 0:00.04 kworker/1:0-mm_
20 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-kb
21 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/2
22 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/2
23 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/2
24 root 20 0 0 0 0 S 0.0 0.0 0:00.01 ksoftirqd/2
26 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/2:0H-kb
27 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/3
28 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdog/3
29 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/3
30 root 20 0 0 0 0 S 0.0 0.0 0:00.01 ksoftirqd/3
32 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/3:0H-kb
root@kayonpc27:/home/kayon-pc27# echo $SHELL
root@kayonpc27:/home/kayon-pc27# /bin/bash
root@kayonpc27:/home/kayon-pc27# echo {con,pre}{sent,fer}{s,ed}
consents condoned confers conferred presents presented prefers preferred
root@kayonpc27:/home/kayon-pc27# man ls
root@kayonpc27:/home/kayon-pc27# 
```

```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
LS(1) User Commands LS(1)
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 -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
scale sizes by SIZE before printing them; e.g., '--block-size=M' prints sizes in units of 1,048,576 bytes; 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
Manual page ls(1) line 1/287 20% (press h for help or q to quit)
Ubuntu 18.04 LTS - 64-bit - 5.0.0-32-generic - x86_64 - root@kayonpc27:~# Menyiapkan Programming E... Untitled 1 - LibreOffice Writer [Screenshot_2019-10-09_17... Pictures - File Manager Terminal - root@kayonpc27:~/... 10 Okt, 08:05
```

```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
-F, --classify
append indicator (one of */=>@) to entries
--file-type
likewise, except do not append '*'
--format=WORD
across -x, commas -m, horizontal -x, long -l, single-column -1, verbose -l, vertical -c
--full-time
like -l --time-style=full-iso
-g
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/or -s, print human readable sizes (e.g., 1K 234M 2G)
--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)
Manual page ls(1) line 46/207 43% (press h for help or q to quit)
Ubuntu 18.04 LTS - 64-bit - 5.0.0-32-generic - x86_64 - root@kayonpc27:~# Menyiapkan Programming E... Untitled 1 - LibreOffice Writer [Screenshot_2019-10-09_17... Pictures - File Manager Terminal - root@kayonpc27:~/... 10 Okt, 08:05
```

```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help

-k, --kibibytes
    default to 1024-byte blocks for disk usage

-l     use a long listing format

-L, --dereference
    when showing file information for a symbolic link, show information for the file the link references rather than for the link itself

-m     fill width with a comma separated list of entries

-n, --numeric-uid-gid
    like -l, but list numeric user and group IDs

-N, --literal
    print entry names without quoting

-o     like -l, but do not list group information

-p, --indicator-style=slash
    append / indicator to directories

-q, --hide-control-chars
    print ? instead of nongraphic characters

--show-control-chars
    show nongraphic characters as-is (the default, unless program is 'ls' and output is a terminal)

-Q, --quote-name
    enclose entry names in double quotes

--quoting-style=WORD
    use quoting style WORD for entry names: literal, locale, shell, shell-always, shell-escape, shell-escape-always, c, escape

-r, --reverse
    reverse order while sorting

-R, --recursive
    list subdirectories recursively

-s, --size
    print the allocated size of each file, in blocks

-S     sort by file size, largest first

Manual page ls(1) line 96/207 64% (press h for help or q to quit)]
```

```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help

-S     sort by file size, largest first

--sort=WORD
    sort by WORD instead of name: none (-u), size (-S), time (-t), version (-v), extension (-x)

--time=WORD
    with -l, show time as WORD instead of default modification time: atime or access or use (-u); ctime or status (-c); also use specified time as sort key if --sort-time (newest first)

--time-style=STYLE
    with -l, show times using style STYLE: full-iso, long-iso, iso, locale, or +FORMAT; FORMAT is interpreted like in 'date'; if FORMAT is FORMAT1<newline>FORMAT2, then FORMAT1 applies to non-recent files and FORMAT2 to recent files; if STYLE is prefixed with 'posix-', STYLE takes effect only outside the POSIX locale

-t     sort by modification time, newest first

-T, --tabsize=COLS
    assume tab stops at each COLS instead of 8

-u     with -lt: sort by, and show, access time; with -l: show access time and sort by name; otherwise: sort by access time, newest first

-U     do not sort; list entries in directory order

-v     natural sort of (version) numbers within text

-w, --width=COLS
    set output width to COLS.  0 means no limit

-x     list entries by lines instead of by columns

-X     sort alphabetically by entry extension

-Z, --context
    print any security context of each file

-l     list one file per line.  Avoid '\n' with -q or -b

--help display this help and exit

--version
    output version information and exit

The SIZE argument is an integer and optional unit (example: 10K is 10*1024).  Units are K,M,G,T,P,E,Z,Y (powers of 1024) or KB,MB,... (powers of 1000).

Using color to distinguish file types is disabled both by default and with --color=never.  With --color=auto, ls emits color codes only when standard output is connected to a terminal.

Manual page ls(1) line 139/207 87% (press h for help or q to quit)]
```

```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help WHO(1) User Commands WHO(1)
NAME
  who - show who is logged on
SYNOPSIS
  who [OPTION]... [ FILE | ARG1 ARG2 ]
DESCRIPTION
  Print information about users who are currently logged in.

  -a, --all
    same as -b -d --login -p -r -t -T -u

  -b, --boot
    time of last system boot

  -d, --dead
    print dead processes

  -H, --heading
    print line of column headings

  --ips
    print ips instead of hostnames. with --lookup, canonicalizes based on stored IP, if available, rather than stored hostname

  -l, --login
    print system login processes

  --lookup
    attempt to canonicalize hostnames via DNS

  -m
    only hostname and user associated with stdin

  -P, --process
    print active processes spawned by init

  -q, --count
    all login names and number of users logged on

  -r, --runlevel
    print current runlevel

  -s, --short
    print only name, line, and time (default)

Manual page who(1) line 1/83 49% (press h for help or q to quit)]
```

```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help WHO(1) WHO(1)
  -r, --runlevel
    print current runlevel

  -s, --short
    print only name, line, and time (default)

  -t, --time
    print last system clock change

  -T, -w, --msg
    add user's message status as +, - or ?

  -u, --users
    list users logged in

  --message
    same as -T

  --writable
    same as -T

  --help
    display this help and exit

  --version
    output version information and exit

  If FILE is not specified, use /var/run/utmp. /var/log/wtmp as FILE is common. If ARG1 ARG2 given, -m presumed: 'am i' or 'mom likes' are usual.

AUTHOR
  Written by Joseph Arceneaux, David MacKenzie, and Michael Stone.

REPORTING BUGS
  GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
  Report who translation bugs to <http://translationproject.org/team/>

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SEE ALSO
  Full documentation at: <http://www.gnu.org/software/coreutils/who>
  or available locally via: info '(coreutils) who invocation'

GNU coreutils 8.28
Manual page who(1) line 40/83 (END) (press h for help or q to quit)]
```

```

Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
 6 root 0 -20 0 0 0 I 0,0,0,0 0:00:00 kworker/0:0H-kb
 8 root 0 -20 0 0 0 I 0,0,0,0 0:00:00 mm_percpu_wq
 9 root 20 0 0 0 0 S 0,0,0,0 0:00:01 ksoftirqd/0
11 root 20 0 0 0 0 S 0,0,0,0 0:00:00 rcu_bh
12 root rt 0 0 0 0 S 0,0,0,0 0:00:00 migration/0
13 root rt 0 0 0 0 S 0,0,0,0 0:00:00 watchdog/0
14 root 20 0 0 0 0 S 0,0,0,0 0:00:00 cpuhp/0
15 root 20 0 0 0 0 S 0,0,0,0 0:00:00 cpuhp/1
16 root rt 0 0 0 0 S 0,0,0,0 0:00:00 watchdog/1
17 root rt 0 0 0 0 S 0,0,0,0 0:00:00 migration/1
18 root 20 0 0 0 0 I 0,0,0,0 0:00:01 ksoftirqd/1
19 root 20 0 0 0 0 I 0,0,0,0 0:00:04 kworker/1:0-mm_
20 root 0 -20 0 0 0 I 0,0,0,0 0:00:00 kworker/1:0H-kb
21 root 20 0 0 0 0 S 0,0,0,0 0:00:00 cpuhp/2
22 root rt 0 0 0 0 S 0,0,0,0 0:00:00 watchdog/2
23 root rt 0 0 0 0 S 0,0,0,0 0:00:00 migration/2
24 root 20 0 0 0 0 S 0,0,0,0 0:00:01 ksoftirqd/2
26 root 0 -20 0 0 0 I 0,0,0,0 0:00:00 kworker/2:0H-kb
27 root 20 0 0 0 0 S 0,0,0,0 0:00:00 cpuhp/3
28 root rt 0 0 0 0 S 0,0,0,0 0:00:00 watchdog/3
29 root rt 0 0 0 0 S 0,0,0,0 0:00:00 migration/3
30 root 20 0 0 0 0 S 0,0,0,0 0:00:01 ksoftirqd/3
32 root 0 -20 0 0 0 I 0,0,0,0 0:00:00 kworker/3:0H-kb
root@kayonpc27:/home/kayon-pc27# echo $SHELL
root@kayonpc27:/home/kayon-pc27# echo $SHELL
root@kayonpc27:/home/kayon-pc27# /bin/bash
/bin/bash
root@kayonpc27:/home/kayon-pc27# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc27:/home/kayon-pc27# man ls
root@kayonpc27:/home/kayon-pc27# man who
root@kayonpc27:/home/kayon-pc27# who can tell me about linux
who: extra operand `me'
Try `who --help' for more information.
root@kayonpc27:/home/kayon-pc27# last
Kayon-pc tty    :0          Thu Oct 10 07:22   gone - no logout
reboot system boot 4.18.0-22-generic Thu Oct 10 07:21 still running
Kayon-pc tty    :0          Wed Oct  9 16:33 - 17:33 (01:00)
reboot system boot 4.18.0-22-generic Wed Oct  9 23:32 - 17:33 (-5:59)
Kayon-pc tty    :0          Tue Oct  8 23:31 - 17:29 (-5:45)
reboot system boot 4.18.0-22-generic Tue Oct  8 23:14 - 17:29 (-5:45)

wtmp begins Tue Oct  8 15:34:41 2019
root@kayonpc27:/home/kayon-pc27# clear[]



```

```

Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help
wtmp begins Tue Oct  8 15:34:41 2019
root@kayonpc27:/home/kayon-pc27# clear

root@kayonpc27:/home/kayon-pc27# fdisk -l
Disk /dev/sda: 465.8 GiB, 500107862016 bytes, 976773168 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disklabel type: dos
Disk identifier: 0x00e875a7

Device      Boot   Start     End   Sectors  Size Id Type
/dev/sda1   *      2048 204800  100M  7 HPFS/NTFS/exFAT
/dev/sda2      206848 417794047 415757200 199.1G 7 HPFS/NTFS/exFAT
/dev/sda3      419432448 935811071 516378624 246.2G 7 HPFS/NTFS/exFAT
/dev/sda4      935811072 976771071 40960000 19.5G 83 Linux

root@kayonpc27:/home/kayon-pc27# users
Kayon-pc:27
root@kayonpc27:/home/kayon-pc27# cat /etc/fstab
# /etc/fstab: static file system information.

# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
#  <mount point> <type> <options> <dump> <pass>
# / was on /dev/sda4 during installation
UUID=0639a9f7-ae51-45b3-ac46-43c68764f408 /          ext4    errors=remount-ro 0      1
/swappfile      none        swap    sw      0      0
root@kayonpc27:/home/kayon-pc27# cal 2000
          Januari           Februari           Maret
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
      1          1          1          2          3          4          5          1          2          3          4
 2 3 4 5 6 7 8 6 7 8 9 10 11 12 5 6 7 8 9 10 11
 9 10 11 12 13 14 15 13 14 15 16 17 18 19 12 13 14 15 16 17 18
16 17 18 19 20 21 22 20 21 22 23 24 25 26 19 20 21 22 23 24 25
23 24 25 26 27 28 29 27 28 29 26 27 28 29 30 31
30 31

          April            Mei             Juni
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
      1          1          2          3          4          5          6          1          2          3


```

```

Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# <file system> <mount point> <type> <options> <dump> <pass>
# / was on /dev/sda4 during installation
UUID=0639a9f7-ae51-45b3-ac46-43c68764f408 / ext4 errors=remount-ro 0 1
/swappfile none swap sw 0 0
root@kayonpc27:/home/kayon-pc27# cal 2000
2000
Januari Februari Maret
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5 6 7 8 9 10 11 12 13 5 6 7 8 9 10 11
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 12 13 14 15 16 17 18
9 10 11 12 13 14 15 13 14 15 16 17 18 19 11 12 13 14 15 16 17
16 17 18 19 20 21 22 20 21 22 23 24 25 26 19 20 21 22 23 24 25
23 24 25 26 27 28 29 27 28 29 26 27 28 29 30 31
30 31

April Mei Juni
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5 6 7 8 9 10 11 12 13 4 5 6 7 8 9 10
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 11 12 13 14 15 16 17
9 10 11 12 13 14 15 14 15 16 17 18 19 20 10 11 12 13 14 15 16
16 17 18 19 20 21 22 21 22 23 24 25 26 27 18 19 20 21 22 23 24
23 24 25 26 27 28 29 28 29 30 31 25 26 27 28 29 30
30 31

Juli Agustus September
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5 6 7 8 9 10 11 12 13 3 4 5 6 7 8 9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10 11 12 13 14 15 16
9 10 11 12 13 14 15 13 14 15 16 17 18 19 10 11 12 13 14 15 16
16 17 18 19 20 21 22 20 21 22 23 24 25 26 17 18 19 20 21 22 23
23 24 25 26 27 28 29 27 28 29 30 31 24 25 26 27 28 29 30
30 31

Oktober November Desember
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5 6 7 8 9 10 11 12 13 4 5 6 7 8 9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10 11 12 13 14 15 16
8 9 10 11 12 13 14 15 13 14 15 16 17 18 19 10 11 12 13 14 15 16
15 16 17 18 19 20 21 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16
22 23 24 25 26 27 28 19 20 21 22 23 24 25 17 18 19 20 21 22 23
29 30 31 26 27 28 29 30 24 25 26 27 28 29 30
31

root@kayonpc27:/home/kayon-pc27# 
```

```

Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
23 24 25 26 27 28 29 28 29 30 31 25 26 27 28 29 30
30

Juli Agustus September
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5 6 7 8 9 10 11 12 13 3 4 5 6 7 8 9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10 11 12 13 14 15 16
9 10 11 12 13 14 15 13 14 15 16 17 18 19 10 11 12 13 14 15 16
16 17 18 19 20 21 22 20 21 22 23 24 25 26 17 18 19 20 21 22 23
23 24 25 26 27 28 29 27 28 29 30 31 24 25 26 27 28 29 30
30 31

Oktober November Desember
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
1 2 3 4 5 6 7 8 9 10 11 12 13 4 5 6 7 8 9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10 11 12 13 14 15 16
8 9 10 11 12 13 14 15 13 14 15 16 17 18 19 10 11 12 13 14 15 16
15 16 17 18 19 20 21 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16
22 23 24 25 26 27 28 19 20 21 22 23 24 25 17 18 19 20 21 22 23
29 30 31 26 27 28 29 30 24 25 26 27 28 29 30
31

root@kayonpc27:/home/kayon-pc27# cal 9 1752
September 1752
Mi Se Sa Ra Ka Ju Sa
1 2 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
30

root@kayonpc27:/home/kayon-pc27# cal 9 2007
September 2007
Mi Se Sa Ra Ka Ju 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
root@kayonpc27:/home/kayon-pc27# bc -l
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software Foundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type warranty'.
quit
root@kayonpc27:/home/kayon-pc27# 
```



```

Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
4 apt update
3 apt-get upgrade
4 clear
5 apt autoremove
6 apt upgrade
7 apt autoremove
8 apt autoclean
9 nano /etc/bash.bashrc
10 clear
11 apt install ssh
12 clear
13 apt install ssh
14 service ssh restart
15 apt install ubiquity-slideshow-xubuntu
16 apt install f
17 clear
18 nano /etc/lsb-release
19 clear
20 clear
21 clear
22 lsb release -a
23 clear
24 apt purge pinguybuilder
25 clear
26 apt autoremove
27 clear
28 apt autoclean
29 clear
30 kdjb
31 cd ..
32 ls
33 rm -rf PinguyBuilder/*
34 ls
35 rm -rf PinguyBuilder
36 ls
37 cd master/
38 ls
39 rm -rf pinguybuilder_5.1-8_all.deb
40 clear
41 ls
42 clear
43 apt updat
44 apt update
45 cea
46 clear
47 ez
```
Menyiapkan Programming E... Untitled 1 - LibreOffice Writer [Screenshot_2019-10-09_17... Pictures - File Manager Terminal - root@kayonpc27:/home/kayon-pc27 10 Okt, 08:14
File Edit View Terminal Tabs Help
895 cat /etc/fstab
896 cal 2000
897 cal 9 1752
898 cal 9 2007
899 bc -l
900 echo 5+4 | bc -l
901 yes please
902 bc -l
903 pwd
904 history
root@kayonpc27:/home/kayon-pc27# tail -f
quit
tail -f /var/log/message
quit
^C
root@kayonpc27:/home/kayon-pc27# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayonpc27:/home/kayon-pc27# lsmod
Module Size Used by
joydev 24576 0
input_leds 16384 0
snd_hda_codec_hdmi 49152 1
nvidia_uvm 815104 0
eeepc_wmi 16384 0
asus_wmi 28672 1 eepc_wmi
sparse_keymap 16384 1 asus_wmi
wmi_bmo 16384 0
gpio_ich 16384 0
intel_rapl 20480 0
x86_pkg_temp_thermal 16384 0
intel_powerclamp 16384 0
coretemp 16384 0
kvm_intel 208996 0
kvm 626685 1 kvm_intel
irqbypass 16384 1 kvm
crc32_pclmul 16384 0
crc32_clmul 16384 0
ghash_clmulni_intel 16384 0
pcbc 16384 0
snd_seq_midi 16384 0
snd_seq_midi_event 16384 1 snd_seq_midi
snd_rawmidi 32768 1 snd_seq_midi
aesni_intel 209704 0
```
Menyiapkan Programming E... Untitled 1 - LibreOffice Writer [Screenshot_2019-10-09_17... Pictures - File Manager Terminal - root@kayonpc27:/home/kayon-pc27 10 Okt, 08:15

```

```

Terminal - root@kayonpc27: /home/kayon-pc27

File Edit View Terminal Tabs Help
root@kayonpc27: /home/kayon-pc27# lsmod
Module           Size Used by
joydev          24576  0
input_leds      16384  0
snd_hda_codec_hdmi 49152  1
nvidia_uvm     815104  0
eepc_wmi       16384  0
asus_wmi        28672  1 eepc_wmi
sparse_keymap   16384  1 asus_wmi
wmi_bmo          16384  0
gpio_ich        16384  0
intel_rapl      20480  0
x86_pkg_temp_thermal 16384  0
intel_powerclamp 16384  0
coretemp        16384  0
kvm_intel       208896  0
kvm             626688  1 kvm_intel
irgbypass       16384  1 kvm
crc32_pclmul    16384  0
crc32_pclmuln   16384  0
ghash_clmulni_intel 16384  0
pcbc            16384  0
snd_seq_midi    16384  0
snd_seq_midi_event 16384  1 snd_seq_midi
snd_rawmidi     32768  1 snd_seq_midi
aesni_intel     200704  0
snd_hda_codec_realtek 106496  1
snd_hda_codec_generic 73728  1 snd_hda_codec_realtek
aes_x86_64      20480  1 aesni_intel
crypto_simd     16384  1 aesni_intel
cryptd          24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel
glue_helper     16384  1 aesni_intel
sch fq_codel    20480  2
intel_cstate     20480  0
intel_rapl_perf 16384  0
snd_seq          65536  2 snd_seq_midi,snd_seq_midi_event
wmi              24576  2 asus_wmi,wmi_bmo
snd_hda_intel    40960  2
snd_hda_codec    128976  4 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec_realtek
snd_hda_core     81920  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek
snd_hwdep        20480  1 snd_hda_codec
snd_seq_device   16384  3 snd_seq,snd_seq_midi,snd_rawmidi
lpc_ich          24576  0
snd_pcm          98304  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
snd_timer        32768  2 snd_seq,snd_pcm
snd                81920  15 snd_hda_codec_generic,snd_seq,snd_seq_device,snd_hda_codec_hdmi,snd_hwdep,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek,snd_timer,snd_pcm,snd_rawmidi
root@kayonpc27: /home/kayon-pc27#

```

```

Terminal - root@kayonpc27: /home/kayon-pc27

File Edit View Terminal Tabs Help
kayon-p+ 1785 0.0 0.1 177136 14448 ? S 07:22 0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-1.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libsystray.so 4 8388634 systray
Kayan-p+ 1786 0.0 0.4 416854 32992 ? S 07:22 0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libnotification-plugin.so 5 8388
Kayan-p+ 1787 0.0 0.3 486736 29748 ? S 07:22 0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libindicator-plugin.so 6 8388636
Kayan-p+ 1788 0.0 0.4 564524 33816 ? S 07:22 0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libstatusnotifier.so 7 8388637 s
Kayan-p+ 1789 0.0 0.4 412780 33072 ? S 07:22 0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libxfce4powermanager.so 8 8388637
Kayan-p+ 1790 0.0 0.4 706720 34932 ? S 07:22 0:03 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libpulseaudio-plugin.so 9 838863
Kayan-p+ 1810 0.0 0.1 526652 10512 ? S 07:22 0:00 /usr/lib/gvfs/gvfs-udisks2-volume-monitor
Kayan-p+ 1811 0.0 0.1 391924 9792 ? S 07:22 0:00 /usr/lib/x86_64-linux-gnu/indicator-messages/indicator-messages-service
Kayan-p+ 1819 0.0 0.0 289264 6752 ? S 07:22 0:00 /usr/lib/gvfs/gvfs-photovolume-monitor
Kayan-p+ 1823 0.0 0.0 274512 5926 ? S 07:22 0:00 /usr/lib/gvfs/gvfs-goa-volume-monitor
Kayan-p+ 1827 0.0 0.0 379280 7781 ? S 07:22 0:00 /usr/lib/gvfs/gvfs-afc-volume-monitor
Kayan-p+ 1832 0.0 0.0 276340 6136 ? S 07:22 0:00 /usr/lib/gvfs/gvfs-mtp-volume-monitor
Kayan-p+ 1844 0.0 0.1 384484 9740 ? S 07:22 0:00 /usr/lib/gvfs/gvfsd-trash --spawner :1.15 /org/gtk/gvfs/exec_spaw
Kayan-p+ 1869 0.0 0.0 204836 4876 ? S 07:22 0:00 /usr/lib/gvfs/gvfsd-metadata
Kayan-p+ 1875 0.0 0.0 82724 7072 ? S 07:22 0:00 /usr/lib/bluetooth/obexd
root 1892 0.0 0.1 382888 14080 ? S 07:22 0:00 /usr/lib/packagekit/packagekit
Kayan-p+ 2758 0.0 0.6 825254 50428 ? RL 07:24 0:19 /usr/bin/xfce4-terminal
Kayan-p+ 2762 0.0 0.0 30036 4784 pts/0 S 07:24 0:00 bash
root 2771 0.0 0.0 73428 4334 pts/0 S 07:24 0:00 sudo su
root 2772 0.0 0.0 72716 3996 pts/0 S 07:24 0:00 su
root 2773 0.0 0.0 30088 5064 pts/0 S 07:24 0:00 bash
root 2829 0.0 0.0 108152 8028 ? S 07:27 0:00 /usr/sbin/cupsd -l
root 2830 0.0 0.1 303520 11164 ? S 07:27 0:00 /usr/sbin/cups-browsed
Kayan-p+ 2929 0.0 0.0 155016 6208 ? S 07:32 0:00 /usr/lib/libreoffice/program/oosplash --writer
Kayan-p+ 2944 1.4 2.2 1186836 180140 ? S 07:32 0:37 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=
Kayan-p+ 3282 3.0 4.3 5264496 353340 ? S 07:34 1:18 /usr/lib/firefox/firefox
Kayan-p+ 3388 0.0 1.3 262752 107136 ? S 07:34 0:01 /usr/lib/firefox/firefox -contentproc -childID 2 -isForBrowser -prefsLen 6185 -prefMapSize 192731 -parentBuildID 20190828152820
Kayan-p+ 3458 0.6 1.8 2650232 153928 ? S 07:34 0:16 /usr/lib/firefox/firefox -contentproc -childID 4 -isForBrowser -prefsLen 6853 -prefMapSize 192731 -parentBuildID 20190828152820
Kayan-p+ 3524 1.1 2.5 2861804 207732 ? S 07:36 0:26 /usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 7362 -prefMapSize 192731 -parentBuildID 20190828152820
Kayan-p+ 4954 0.2 1.8 2620652 148392 ? S 07:44 0:04 /usr/lib/firefox/firefox -contentproc -childID 8 -isForBrowser -prefsLen 7619 -prefMapSize 192731 -parentBuildID 20190828152820
root 4993 0.0 0.0 0 0 ? I 07:45 0:00 kworker/0:0-eve
root 5058 0.0 0.0 0 0 ? I 07:49 0:00 kworker/2:0-cgr
Kayan-p+ 5063 0.1 1.8 2633280 151252 ? S 07:49 0:02 /usr/lib/firefox/firefox -contentproc -childID 10 -isForBrowser -prefsLen 7666 -prefMapSize 192731 -parentBuildID 20190828152820
Kayan-p+ 5111 0.8 2.3 2677364 186608 ? S 07:49 0:13 /usr/lib/firefox/firefox -contentproc -childID 11 -isForBrowser -prefsLen 7666 -prefMapSize 192731 -parentBuildID 20190828152820
Kayan-p+ 5152 0.3 2.1 2672780 176586 ? S 07:51 0:04 /usr/lib/firefox/firefox -contentproc -childID 12 -isForBrowser -prefsLen 7666 -prefMapSize 192731 -parentBuildID 20190828152820
root 5450 0.0 0.0 0 0 ? I 07:55 0:00 kworker/0:1-eve
root 6021 0.0 0.0 0 0 ? I 07:58 0:00 kworker/u8:1-eve
Kayan-p+ 6053 0.0 0.6 544516 51200 ? S 07:59 0:00 ristretto /home/kayon-pc27/Pictures/Screenshot_2019-10-09_16-53-57.png
Kayan-p+ 6062 0.0 0.9 2527676 76404 ? S 07:59 0:00 /usr/lib/firefox/firefox -contentproc -childID 15 -isForBrowser -prefsLen 7820 -prefMapSize 192731 -parentBuildID 20190828152820
Kayan-p+ 6110 0.0 0.1 458296 9400 ? S 08:00 0:00 /usr/lib/gvfs/gvfsd-network --spawner :1.15 /org/gtk/gvfs/exec_spaw/2
Kayan-p+ 6130 0.0 0.0 455492 7624 ? S 08:00 0:00 /usr/lib/gvfs/gvfsd-dnssd --spawner :1.15 /org/gtk/gvfs/exec_spaw/5
root 6391 0.1 0.0 0 0 ? I 08:10 0:00 [kworker/u8:2-ev]
root 6392 0.1 0.0 0 0 ? I 08:10 0:00 [kworker/u8:3-ev]
root 6450 0.0 0.0 47240 3676 pts/0 R+ 08:16 0:00 ps -axu
root@kayonpc27: /home/kayon-pc27#

```

```
Terminal - root@kayonpc27:/home/kayon-pc27

File Edit View Terminal Tabs Help

kayon-pc27:~$ 00:00:00 Host bridge: Intel Corporation 4th Gen Core Processor DRAM Controller (rev 06)
00:01:00 PCI bridge: Intel Corporation Xeon E3-1200 v3/4th Gen Core Processor PCI Express x16 Controller (rev 06)
00:14:00 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB eXtensible Interface Controller (rev 05)
00:16:00 Communication controller: Intel Corporation 8 Series/C220 Series Chipset Family MEI Controller #1 (rev 04)
00:1a:00 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB eXtensible Interface Controller #2 (rev 05)
00:1b:00 Audio device: Intel Corporation 8 Series/C220 Series Chipset High Definition Audio Controller (rev 05)
00:1c:00 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #1 (rev d5)
00:1c:20 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #3 (rev d5)
00:1c:50 PCI bridge: Intel Corporation 82801 PCI Bridge (rev d5)
00:1d:00 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB eXtensible Interface Controller #1 (rev 05)
00:1f:00 ISA bridge: Intel Corporation H81 Express LPC Controller (rev 05)
00:1f:20 SATA controller: Intel Corporation 8 Series/C220 Series Chipset Family 6-port SATA Controller 1 [AHCI mode] (rev 05)
00:1f:30 SMBus: Intel Corporation 8 Series/C220 Series Chipset Family SMBus Controller (rev 05)
01:00:00 VGA compatible controller: NVIDIA Corporation GM107 [GeForce GTX 750 Ti] (rev a1)
01:00:01 Audio device: NVIDIA Corporation Device 0fbc (rev a1)
03:00:00 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00:00 PCI bridge: ASMedia Technology Inc. ASM1083/1085 PCIe to PCI Bridge (rev 04)
root@kayonpc27:~$ free
              total        used       free      buff/cache   available
Mem:       8106416      1114044      5631684      116880      1360688     6606768
Swap:      947080          0      947080
root@kayonpc27:~$ cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 60
model name    : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
stepping       : 3
microcode     : 0x27
cpu MHz       : 798.231
cache size    : 6144 KB
physical id   : 0
siblings       : 4
core id       : 0
cpu cores    : 4
apicid        : 0
initial apicid: 0
fpu           : yes
fpu exception : yes

Menyiapkan Programming E... Untitled 1 - LibreOffice Writer [Screenshot_2019-10-09_17... Pictures - File Manager Terminal - root@kayonpc27:~/... 10 Okt, 08:17
```

```
- Terminal - root@kayonpc27: /home/kayon-pc27
File Edit View Terminal Tabs Help

fpu_exception : yes
cpuid_level : 13
cpuid : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc arch_perfmon
pebs bts rep_good nopl xttopology nonstop_tsc cpuid aperfmpf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtrp pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrandlah_lm abm cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust bmil avx2 smp bmil2 erms invpcid
xsaveopt dtherm ida arat pln pts md_clear flush_lld
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds
bogomips : 6594.98
clflush_size : 64
cache_alignment : 64
address_sizes : 39 bits physical, 48 bits virtual
power management:

processor : 3
vendor_id : GenuineIntel
cpu_family : 6
model : 60
model_name : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
stepping : 3
microcode : 0x27
cpu_MHz : 798.185
cache_size : 6144 KB
physical_id : 0
siblings : 4
core_id : 3
cpu_cores : 4
cpu_apicid : 6
initial_apicid : 6
fpu : yes
fpu_exception : yes
cpuid_level : 13
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc arch_perfmon
pebs bts rep_good nopl xttopology nonstop_tsc cpuid aperfmpf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtrp pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrandlah_lm abm cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust bmil avx2 smp bmil2 erms invpcid
xsaveopt dtherm ida arat pln pts md_clear flush_lld
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds
bogomips : 6594.98
clflush_size : 64
cache_alignment : 64
address_sizes : 39 bits physical, 48 bits virtual
power management:
root@kayonpc27: /home/kayon-pc27#
```

```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
kayon-pc27@kayonpc27:~$ sudo apt install finger
E: dpkg was interrupted, you must manually run 'sudo dpkg --configure -a' to correct the problem.
kayon-pc27@kayonpc27:~$ sudo su
root@kayonpc27:/home/kayon-pc27# finger root
Command 'finger' not found, but can be installed with:
apt install finger
root@kayonpc27:/home/kayon-pc27# reboot[]

Menyiapkan Programming E... Untitled 1 - LibreOffice Writer [Screenshot_2019-10-09_17... Pictures - File Manager Terminal - root@kayonpc27: /... 10 Okt, 08:21
```

```
Terminal - root@kayonpc27:/home/kayon-pc27
File Edit View Terminal Tabs Help
kayon-pc27@kayonpc27:~$ sudo
usage: sudo -h [-K | -k | -V]
usage: sudo -v [-AknS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-AknS] [-g group] [-h host] [-p prompt] [-U user] [-u user] [command]
usage: sudo [-AbEHknPs] [-r role] [-t type] [-C num] [-g group] [-h host] [-p prompt] [-T timeout] [-u user] [VAR=value] [-i|-s] [<command>]
usage: sudo [-AknS] [-r role] [-t type] [-C num] [-g group] [-h host] [-p prompt] [-T timeout] [-u user] file ...
kayon-pc27@kayonpc27:~$ sudo su
root@kayonpc27:/home/kayon-pc27# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
root@kayonpc27:/home/kayon-pc27# ls -l
total 32
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Sep 4 14:28 Desktop
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Okt 9 17:33 Documents
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Sep 4 14:28 Downloads
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Sep 4 14:28 Music
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Okt 9 17:06 Pictures
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Sep 4 14:28 Public
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Sep 4 14:28 Templates
drwxr-xr-x 2 kayon-pc27 kayon-pc27 4096 Okt 10 08:21 Videos
root@kayonpc27:/home/kayon-pc27# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc27:/home/kayon-pc27# whatis ls
ls (1)           - list directory contents
root@kayonpc27:/home/kayon-pc27# whatis mkdir
mkdir (1)         - make directories
mkdir (2)         - create a directory
root@kayonpc27:/home/kayon-pc27# mkdir informatika
root@kayonpc27:/home/kayon-pc27# rmdir informatika
root@kayonpc27:/home/kayon-pc27# touch rpltxt
root@kayonpc27:/home/kayon-pc27# rm rpltxt
root@kayonpc27:/home/kayon-pc27# which mkdir
/bin/mkdir
root@kayonpc27:/home/kayon-pc27# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayonpc27:/home/kayon-pc27# df
Filesystem      1K-blocks   Used   Available Use% Mounted on
udev             4012964      0   4012964  0% /dev
tmpfs            810644    1348   809296  1% /run
/dev/sda4        20027216  8510944  10475888  45% /
tmpfs            4053208      0   4053208  0% /dev/shm
tmpfs             5120       4    5116  1% /run/lock
tmpfs            4053208      0   4053208  0% /sys/fs/cgroup
tmpfs            810640     12   810628  1% /run/user/1000
root@kayonpc27:/home/kayon-pc27# []
```

Terminal - root@kayonpc27:/home/kayon-pc27

```
File Edit View Terminal Tabs Help
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter/statusbar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter/toolbar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter/menubar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter/popupmenu
28 ./config/libreoffice/4/user/config/soffice.cfg/modules/swriter
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/startModule/images/Bitmaps
8 ./config/libreoffice/4/user/config/soffice.cfg/modules/startModule/Images
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/startModule/statusbar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/startModule/toolbar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/startModule/menubar
4 ./config/libreoffice/4/user/config/soffice.cfg/modules/startModule/popupmenu
28 ./config/libreoffice/4/user/config/soffice.cfg/modules/startModule
68 ./config/libreoffice/4/user/config/soffice.cfg/modules
64 ./config/libreoffice/4/user/config/soffice.cfg
108 ./config/libreoffice/4/user/config
12 ./config/libreoffice/4/user/gallery
16 ./config/libreoffice/4/user/basic/Standard
28 ./config/libreoffice/4/user/basic
4 ./config/libreoffice/4/user/psprint
408 ./config/libreoffice/4/user/backup
2064 ./config/libreoffice/4/user
2012 ./config/libreoffice/4
2016 ./config/libreoffice
4 ./config/kicad
8 ./config/xubuntu
16 ./config/Thunar
8 ./config/ristretto
8 ./config/gtk-2.0
8 ./config/gtk-3.0
26 ./config/neofetch
84 ./config/pulse
8 ./config/dconf
2380 ./config
44 ./gnome2/gtksourceview-1.0/language-specs
48 ./gnome2/gtksourceview-1.0
52 ./gnome2
3420 ./Videos
460 ./thumbnails/normal
464 ./thumbnails
4 ./Templates
122564 .
root@kayonpc27:/home/kayon-pc27 [ ]
```

Home Trash Terminal - root@kayonpc27: /... 10 Okt, 08:27

Terminal - root@kayonpc27:/home/kayon-pc27

```
File Edit View Terminal Tabs Help
464 ./thumbnails
4 ./Templates
122564
root@kayonpc27:/home/kayon-pc27# free
total used free shared buff/cache available
Mem: 8106416 408316 694452 6692 753548 7449240
Swap: 947080 0 947080
root@kayonpc27:/home/kayon-pc27# pstree
systemd -+-ModemManager--2*[{ModemManager}]
           |--NetworkManager--dhclient
           |           2*[{NetworkManager}]
           |--Thunar
           |--accounts-daemon--2*[{accounts-daemon}]
           |--acpid
           |--avahi-daemon--avahi-daemon
           |--cron
           |--cups-browsed--2*[{cups-browsed}]
           |--cupsd
           |--dbus-daemon
           |--gnome-keyring-d--3*[{gnome-keyring-d}]
           |--irqbalance--{irqbalance}
           |--2*[{kerneloops}]
           |--lightdm -+-Xorg--{Xorg}
           |           |--lightdm--sh--ssh-agent
           |           |           applet.py--{applet.py}
           |           |           blueman-applet--3*[{blueman-applet}]
           |           |           light-locker--3*[{light-locker}]
           |           |           nm-applet--3*[{nm-applet}]
           |           |           polkit-gnome-av--2*[{polkit-gnome-av}]
           |           |           update-notifier--3*[{update-notifier}]
           |           |           2*[{xfce4-session}]
           |--2*[{lightdm}]
           |--2*[{lightdm}]
           |--lvmtd
           |--networkd-dispat--{networkd-dispat}
           |--nvidia-persiste
           |--packagekitd--2*[{packagekitd}]
           |--polkitd--2*[{polkitd}]
           |--pulseaudio--{pulseaudio}
           |--rsyslogd--3*[{rsyslogd}]
           |--rtkit-daemon--2*[{rtkit-daemon}]
           |--sshd
```

Home Trash Terminal - root@kayonpc27: /... 10 Okt, 08:28

TABEL KETERANGAN

NO	DAFTAR PERINTAH	KETERANGAN
1.	echo halo dunia	Menampilkan pesan “halo dunia”
2.	date	Menampilkan keterangan waktu pada saat pemrosesan
3.	hostname	Menampilkan nama sistem operasi yang terletak pada pc
4.	arch	Menampilkan jenis arsitektur dari sebuah mesin
5.	uname -a	Menampilkan informasi sistem informasi
6.	dmesg more	Menampilkan pesan-pesan pada waktu proses boot dengan menampilkan perlayar
7.	uptime	Mengetahui informasi tentang lama sistem berjalan setelah terahir reboot atau mati
8.	whoami	Menanyakan siapa yang sekarang sedang bekerja
9.	who	Menampilkan siapa saja yang login/masuk
10	id	Menampilkna identitas users
11.	last	Menampilkna daftar login terakhir yang ada pada sistem dengan melakukan pengambilan data dari file/var/log/wtmp
12.	finger	Melihat informasi finger
13.	w	Untuk mengetahui siapa yang sedang aktif
14.	top	Melihat semua proses yang sedang berjalan, diurutkan dari proses yang paling besar
15.	echo \$\$HELL	Bin/bash
16.	echo {con, pre} {sent, fer} {s, ed}	Menyusun kata-kata
17.	man ls	Menampilkam informasi tentang ls

18.	man who	Menampilkan informasi tentang who
19.	who can tell me about linux	Gagal (karena tidak bisa)
20.	last	Menampilkan daftar login terakhir yang ada pada sistem dengan melakukan pengambilan data dari file/var/log/wtmp
21.	clear	Perintah menghapus semua data pada layar
22.	fdisk -l	Menampilkan list partisi pada perangkat
23.	users	Menampilkan daftar user yang sedang aktif pada sebuah perangkat
24.	cat /etc /fstab	Melihat file sistem yang telah disetup
25.	cal 2000	Menampilkan kalender pada tahun 2000
26.	cal 9 1975	Menampilkan kalender pada bulan September tahun 1975
27.	cal 10 2007	Menampilkan kalender pada bulan oktober tahun 2007
28.	bc -l	Menampilkan versi bc (bahasa kalkulator)
29.	echo 5+4 bc -l	Menampilkan hasil penjumlahan (9)
30.	yes please	Mencetak string “Please” sampai interrupt
31.	pwd	Digunakan untuk memperlihatkan didirektori mana posisi kita berada sekarang
32.	history	Menampilkan riwayat perintah yang digunakan
33.	tail -f /var/log/message	Tidak bisa menampilkan pesan
34.	lsmod	Menampilkan module/drive yang diload ke kernel
35.	ps -axu	Melihat seluruh proses yang dijalankan, walaupun tanpa terminal control, juga ditampilkan nama dari user untuk setiap proses
36.	lspci	Melihat spesifikasi hardware dari computer yang sedang digunakan
37.	free	Melihat informasi pengguna memory
38.	cat /proc/cpuinfo	Melihat pada/proc directory yang bukan merupakan file nyata
39.	finger root	Melihat informasi finger root
40.	reboot	Menghidupkan ulang atau melakukan restart sistem sebuah computer yang sedang hidup atau sedang berjalan
41	halt	Perintah yang hanya bisa dijalankan oleh super user atau anda harus login sebagai root. Perintah ini untuk memberikan kernel supaya mematikan sistem atau shutdown
1.	ls	Menampilkan isi dari suatu direktori
2.	ls -l	Perintah untuk melihat dengan daftar list dari suatu direktori
3.	ls -l/home	Menampilkan semua file lengkap yang ada di home
4.	what is ls	Menampilkan manual atau deskripsi dari perintah ls
5.	whatis mkdir	Menampilkan manual atau deskripsi dari perintah mkdir
6.	mkdir informatika	Untuk membuat sebuah direktori informatika
7.	rmdir informatika	Untuk menghapus direktori informatika
8.	touch rpl.txt	Membuat file rpl.txt
9.	rm rpl.txt	Menghapus file rpl.txt
10.	which mkdir	Mengehtahui letak file perintah
11.	whreis ls	Menunjukkan lokasi file ls

12.	df	Untuk melihat report sisa ruang disk space pada linux system
13.	dv	Untuk melihat summary ukuran pemakaian volume untuk setiap folder atau file yang ada dalam sistem
14.	free	Unutk manampulkan informasi pengguna memori(RAM dan swap)
15.	pstree	Menampilkan semua proses pada sistem dalam bentuk hirarki/parent