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MODUL 5

```
Terminal - root@kayonpc21:/home/kayon-pc21
File Edit View Terminal Tabs Help
kayon-pc21@kayonpc21:~$ sudo su
[sudo] password for kayon-pc21:
root@kayonpc21:/home/kayon-pc21# echo halo dunia
halo dunia
root@kayonpc21:/home/kayon-pc21# date
Rab Okt 9 16:40:32 WIB 2019
root@kayonpc21:/home/kayon-pc21# hostname
kayonpc21
root@kayonpc21:/home/kayon-pc21# arch
x86_64
root@kayonpc21:/home/kayon-pc21# uname -a
Linux kayonpc21 5.0.0-31-generic #33-18.04.1-Ubuntu SMP Tue Oct 1 10:20:39 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
root@kayonpc21:/home/kayon-pc21# dmesg | more
[ 0.000000] microcode: microcode updated early to revision 0x27, date = 2019-
02-26
[ 0.000000] Linux version 5.0.0-31-generic (builddeb1gw01-amd64-046) (gcc vers
ion 7.4.0 (Ubuntu 7.4.0-1ubuntu1-18.04.1)) #33-18.04.1-Ubuntu SMP Tue Oct 1 10:2
0:39 UTC 2019 (Ubuntu 5.0.0-31.33-18.04.1-generic 5.0.21)
[ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.0.0-31-generic root=UUID
=d025fa07-6c79-4d0d-88d9-4392dbfae110 ro quiet splash vt.handoff=1
[ 0.000000] KERNEL supported cpus:
[ 0.000000] Intel GenuineIntel
[ 0.000000] AMD AuthenticAMD
[ 0.000000] Hygon HygonGenuine
[ 0.000000] Centaur CentaurHauls
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point regi
sters'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: '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 0x0000000000000000-0x0000000000000d7f] usable
[ 0.000000] BIOS-e820: [mem 0x0000000000000d80-0x0000000000000fff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x0000000000000fff] reserved
--More--
```

```
Terminal - root@kayonpc21:/home/kayon-pc21
File Edit View Terminal Tabs Help
root@kayonpc21:/home/kayon-pc21# uptime
16:49:21 up 14 min, 1 user, load average: 0.08, 0.16, 0.23
root@kayonpc21:/home/kayon-pc21# whoami
root
root@kayonpc21:/home/kayon-pc21# who
kayon-pc21 tty7 2019-10-09 23:35 (:0)
root@kayonpc21:/home/kayon-pc21# id
uid=0(root) gid=0(root) groups=0(root)
root@kayonpc21:/home/kayon-pc21# last
kayon-pc tty7 :0 Wed Oct 9 23:35 gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct 9 23:34 still running
kayon-pc tty7 :0 Tue Oct 8 17:23 - 17:31 (00:07)
reboot system boot 5.0.0-31-generic Tue Oct 8 17:22 - 17:31 (00:09)
kayon-pc tty7 :0 Tue Oct 8 16:18 - 17:20 (01:02)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:17 - 17:20 (01:03)
kayon-pc tty7 :0 Tue Oct 8 14:56 - 15:33 (00:37)
reboot system boot 5.0.0-31-generic Tue Oct 8 14:55 - 15:34 (00:38)

wtmp begins Tue Oct 8 14:54:59 2019
root@kayonpc21:/home/kayon-pc21# finger

Command 'finger' not found, but can be installed with:

apt install finger

root@kayonpc21:/home/kayon-pc21# w
16:49:44 up 14 min, 1 user, load average: 0.05, 0.14, 0.22
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
kayon-pc tty7 :0 23:35 ? 8.85s 0.01s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayonpc21:/home/kayon-pc21# top

top - 16:51:14 up 16 min, 1 user, load average: 0.01, 0.10, 0.19
Tasks: 191 total, 1 running, 140 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.1 us, 0.3 sy, 0.0 hi, 99.6 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 810364 total, 6395128 free, 489435 used, 1219804 buff/cache
KiB Swap: 947028 total, 947028 free, 0 used, 7325416 avail Mem

  PID USER      PR  NI   VIRT   RES    SHR %  CPU %MEM   TIME+ COMMAND
5942 root        20   0 51672 4072 3384 R  0.7  0.1  0:00.35 top
5 root        20   0 0 0 0 I  0.3  0.0  0:00.09 kworker/0:0-eve
5623 kayon-p+ 20   0 583404 39552 29428 S  0.3  0.5  0:03.50 xfce4-terminal
1 root        20   0 225404 9188 6708 S  0.0  0.1  0:01.17 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
```

```
Terminal - root@kayonpc21: /home/kayon-pc21

Tasks: 191 total, 1 running, 140 sleeping, 0 stopped, 0 zombie
%cpu(s): 0.1 us, 0.3 sy, 0.0 ni, 99.6 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 8103648 total, 6395128 free, 499436 used, 1219084 buff/cache
KiB Swap: 947028 total, 947028 free, 0 used, 7325416 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
5942 root 20 0 51672 4072 3384 R 0.7 0.1 0:00.35 top
5 root 20 0 0 0 0 I 0.3 0.0 0:00.00 kworker/0:0-eve
5623 kayon-p+ 20 0 583404 39552 29428 S 0.3 0.5 0:03.50 xfce4-terminal
1 root 20 0 225404 9188 6708 S 0.0 0.1 0:01.17 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 0:00.00 ksoftirqd/0
10 root 20 0 0 0 0 I 0.0 0.0 0:00.35 rcu_sched
11 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/0
12 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/0
14 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuphp/0
15 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuphp/1
16 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/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 0:00.00 ksoftirqd/1
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 cpuphp/2
22 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/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 0:00.00 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 cpuphp/3
28 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/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 0:00.00 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
34 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns
35 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_kthre
36 root 20 0 0 0 0 S 0.0 0.0 0:00.03 kauditd
37 root 20 0 0 0 0 S 0.0 0.0 0:00.00 khungtaskd
38 root 20 0 0 0 0 S 0.0 0.0 0:00.00 oom_reaper
39 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 writeback
40 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kcompactd0
41 root 25 5 0 0 0 S 0.0 0.0 0:00.00 ksmtd
root@kayonpc21: /home/kayon-pc21#
```

```
Terminal - root@kayonpc21: /home/kayon-pc21

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 (press h for help or q to quit)
```

```
Terminal - root@kayonpc21:/home/kayon-pc21
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 (press h for help or q to quit)
```

```
Terminal - root@kayonpc21:/home/kayon-pc21
File Edit View Terminal Tabs Help
15 root 20 0 0 0 0 S 0,0 0,0 0:00.00 cpuhp/1
16 root -51 0 0 0 0 S 0,0 0,0 0:00.00 idle_inject/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 0:00.00 ksoftirqd/1
20 root 0 -20 0 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 -51 0 0 0 0 S 0,0 0,0 0:00.00 idle_inject/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 0:00.00 ksoftirqd/2
26 root 0 -20 0 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 -51 0 0 0 0 S 0,0 0,0 0:00.00 idle_inject/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 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
34 root 0 -20 0 0 0 0 I 0,0 0,0 0:00.00 netns
35 root 20 0 0 0 0 S 0,0 0,0 0:00.00 rcu_tasks_kthre
36 root 20 0 0 0 0 S 0,0 0,0 0:00.03 kauditd
37 root 20 0 0 0 0 S 0,0 0,0 0:00.00 khungtaskd
38 root 20 0 0 0 0 S 0,0 0,0 0:00.00 oom_reaper
39 root 0 -20 0 0 0 0 I 0,0 0,0 0:00.00 writeback
40 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kcompactd0
41 root 25 5 0 0 0 S 0,0 0,0 0:00.00 ksm
root@kayonpc21:/home/kayon-pc21# echo $SHELL
/bin/bash
root@kayonpc21:/home/kayon-pc21# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc21:/home/kayon-pc21# man ls
root@kayonpc21:/home/kayon-pc21# man who
root@kayonpc21:/home/kayon-pc21# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayonpc21:/home/kayon-pc21# last
kayon-pc tty7 :0 Wed Oct 9 23:35 gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct 9 23:34 still running
kayon-pc tty7 :0 Tue Oct 8 17:23 - 17:31 (00:07)
reboot system boot 5.0.0-31-generic Tue Oct 8 17:22 - 17:31 (00:09)
kayon-pc tty7 :0 Tue Oct 8 16:18 - 17:20 (01:02)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:17 - 17:20 (01:03)
kayon-pc tty7 :0 Tue Oct 8 14:56 - 15:33 (00:37)
reboot system boot 5.0.0-31-generic Tue Oct 8 14:55 - 15:34 (00:38)
wtmp begins Tue Oct 8 14:54:59 2019
root@kayonpc21:/home/kayon-pc21# clear
```

```
Terminal - root@kayonpc21: /home/kayon-pc21

root@kayonpc21:/home/kayon-pc21# 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: 0x80e875a7

Device Boot      Start         End      Sectors  Size Id Type
/dev/sda1 *        2048       206847       204800    100M 7 HPFS/NTFS/exFAT
/dev/sda2          206848   417794047   417587200    199,1G 7 HPFS/NTFS/exFAT
/dev/sda3         417794048   935813119   518019072    247G 7 HPFS/NTFS/exFAT
/dev/sda4         935813120   976771071   40957952    19,5G 83 Linux

root@kayonpc21:/home/kayon-pc21# users
kayon-pc21
root@kayonpc21:/home/kayon-pc21# cat/etc/fstab
bash: cat/etc/fstab: No such file or directory
root@kayonpc21:/home/kayon-pc21# cal 2000
      2000
     Januari      Februari      Maret
Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa
      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      Mai      Juni
Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa
      1            1 2 3 4 5 6            1 2 3
2 3 4 5 6 7 8      7 8 9 10 11 12 13    4 5 6 7 8 9 10
9 10 11 12 13 14 15 14 15 16 17 18 19 20 11 12 13 14 15 16 17
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

     Juli      Agustus      September
Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa
      1            1 2 3 4 5            1 2
2 3 4 5 6 7 8      6 7 8 9 10 11 12    3 4 5 6 7 8 9
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
```

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Terminal - root@kayonpc21: /home/kayon-pc21

/dev/sda4          935813120   976771071   40957952    19,5G 83 Linux

root@kayonpc21:/home/kayon-pc21# users
kayon-pc21
root@kayonpc21:/home/kayon-pc21# cat/etc/fstab
bash: cat/etc/fstab: No such file or directory
root@kayonpc21:/home/kayon-pc21# cal 2000
      2000
     Januari      Februari      Maret
Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa
      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      Mai      Juni
Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa
      1            1 2 3 4 5 6            1 2 3
2 3 4 5 6 7 8      7 8 9 10 11 12 13    4 5 6 7 8 9 10
9 10 11 12 13 14 15 14 15 16 17 18 19 20 11 12 13 14 15 16 17
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

     Juli      Agustus      September
Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa
      1            1 2 3 4 5            1 2
2 3 4 5 6 7 8      6 7 8 9 10 11 12    3 4 5 6 7 8 9
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 Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa
1 2 3 4 5 6 7          1 2 3 4            1 2
8 9 10 11 12 13 14    5 6 7 8 9 10 11    3 4 5 6 7 8 9
15 16 17 18 19 20 21 12 13 14 15 16 17 18 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@kayonpc21:/home/kayon-pc21#
```



```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
clear
root@kayonpc21:/home/kayon-pc21# pwd
/home/kayon-pc21
root@kayonpc21:/home/kayon-pc21# history
1 clear
2 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 cler
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
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
780 mkdir informatika
781 rmdir informatika
782 which mkdir
783 whereis mkdir
784 whereis.mkdir
785 whereis mkdir
786 tree
787 free
788 pstree
789 w
790 yes please
791 halt
792 echo halo dunia
793 date
794 hostname
795 arch
796 uname -a
797 dmesg | more
798 uptime
799 whoami
800 who
801 id
802 last
803 finger
804 w
805 top
806 echo $SHELL
807 echo {con,pre}{sent,fer}{s,ed}
808 man ls
809 man who
810 who can tell me about linux
811 last
812 clear
813 fdisk -l
814 users
815 cat/etc/fstab
816 cal 2000
817 cal 9 1752
818 cal 10 2007
819 bc -l
820 echo 5+4 | bc-l
821 yes please
822 pwd
823 history
root@kayonpc21:/home/kayon-pc21#
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
oaz nistory
root@kayonpc21:/home/kayon-pc21# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayonpc21:/home/kayon-pc21# lsmod
Module                  Size  Used by
ufs                     81920  0
gnx4                   16384  0
hfsplus                110592  0
hfs                    61440  0
minix                  36864  0
ntfs                   106496  0
msdos                  20480  0
jfs                    183416  0
xfs                    1236892  0
intel_rapl             24576  0
x86_pkg_temp_thermal  20480  0
intel_powerclamp       20480  0
coretemp              20480  0
kvm_intel              241664  0
kvm                    630784  1 kvm_intel
irqbypass              16384  1 kvm
crtclodif_pclmul       16384  1
crc32_pclmul           16384  0
ghash_clmulni_intel    16384  0
aesni_intel            372736  0
snd_hda_codec_hdmi     53248  1
aes_x86_64             20480  1 aesni_intel
crypto_simd            16384  1 aesni_intel
snd_hda_codec_realtek  114688  1
crypto                 24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel
snd_hda_codec_generic  77824  1 snd_hda_codec_realtek
glue_helper            16384  1 aesni_intel
ledtrig_audio          16384  2 snd_hda_codec_generic,snd_hda_codec_realtek
snd_hda_intel           49152  2
snd_hda_codec          135168  4 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec_realtek
snd_hda_core            86016  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek
intel_cstate            20480  0
joydev                 28672  0
input_leds             16384  0
intel_rapl_perf        16384  0
eeepc_wmi              16384  0
snd_hwdsp              20480  1 snd_hda_codec
snd_pcm                102400  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
asus_wmi               28672  1 eeepc_wmi
snd_seq_midi           20480  0
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
snd_timer              36864  2 snd_seq,snd_pcm
snd                     86016  15 snd_hda_codec_generic,snd_seq,snd_seq_device,snd_hda_codec_hdmi,snd_hwdsp,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek,snd_timer,snd_pcm,snd_rawmidi
lpc_ich                 24576  0
soundcore               16384  1 snd
mei_me                  40960  0
mei                     106496  1 mei_me
nvidia_uvm              819200  0
mac_hid                 16384  0
sch_fq_codel            20480  2
parport_pc              36864  1
ppdev                   24576  0
lp                      20480  0
parport                 53248  3 parport_pc,lp,ppdev
ip_tables               32768  0
x_tables                40960  1 ip_tables
autofs4                 45056  2
btrfs                  1175552  0
xor                     24576  1 btrfs
zstd_compress           163840  1 btrfs
raid6_pq                114688  1 btrfs
libcrc32c               16384  2 btrfs,xfs
dm_mirror               24576  0
dm_region_hash          20480  1 dm_mirror
dm_log                  20480  2 dm_region_hash,dm_mirror
hid_generic             16384  0
usbhid                  53248  0
hid                     126976  2 usbhid,hid_generic
nvidia_drm              49152  3
nvidia_modeset          1110016  3 nvidia_drm
nvidia                  18792448  85 nvidia_uvm,nvidia_modeset
drm_kms_helper          180224  1 nvidia_drm
syscopyarea             16384  1 drm_kms_helper
sysfillrect             16384  1 drm_kms_helper
sysimgblt               16384  1 drm_kms_helper
fb_sys_fops             16384  1 drm_kms_helper
drm                     483328  6 drm_kms_helper,nvidia_drm
ahci                     40960  1
r8169                   86016  0
libahci                 32768  1 ahci
ipmi_devintf            20480  0
realtek                 20480  0
ipmi_msghandler         102400  2 ipmi_devintf,nvidia
wmi                     28672  2 asus_wmi,wmi_bmof
video                   49152  1 asus_wmi
root@kayonpc21:/home/kayon-pc21#
```



```
Terminal - root@kayonpc21:/home/kayon-pc21

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 xtopology nonstop_tsc cpuid aperfperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadli
ne_timer aes_xsave avx f16c rdrand lahf_lm abm cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vmni flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms
invpcid_xsaveopt dtherm ida arat pln pts md_clear flush_lid
bugs          : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips      : 6584.94
clflush_size  : 64
cache_alignm  : 64
address sizes : 39 bits physical, 48 bits virtual
power managem :

processor     : 3
vendor_id    : GenuineIntel
cpu family   : 6
model        : 80
model name   : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
stepping     : 3
microcode    : 0x27
cpu MHz      : 928.869
cache size   : 6144 KB
physical id  : 0
siblings     : 4
core id      : 3
cpu cores    : 4
apicid       : 6
initial apicid : 6
fpu          : yes
fpu_exceptio : 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 xtopology nonstop_tsc cpuid aperfperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadli
ne_timer aes_xsave avx f16c rdrand lahf_lm abm cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vmni flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms
invpcid_xsaveopt dtherm ida arat pln pts md_clear flush_lid
bugs         : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips      : 6584.94
clflush_size  : 64
cache_alignm  : 64
address sizes : 39 bits physical, 48 bits virtual
power managem :

root@kayonpc21:/home/kayon-pc21#
```

```
Terminal - root@kayonpc21:/home/kayon-pc21

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 xtopology nonstop_tsc cpuid aperfperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadli
ne_timer aes_xsave avx f16c rdrand lahf_lm abm cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vmni flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms
invpcid_xsaveopt dtherm ida arat pln pts md_clear flush_lid
bugs          : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips      : 6584.94
clflush_size  : 64
cache_alignm  : 64
address sizes : 39 bits physical, 48 bits virtual
power managem :

root@kayonpc21:/home/kayon-pc21# ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
root@kayonpc21:/home/kayon-pc21# ls -l
total 36
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Desktop
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Okt  8 15:33 Documents
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Downloads
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Music
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Okt  9 17:15 Pictures
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Public
drwxr-xr-x 3 kayon-pc21 kayon-pc21 4096 Sep 14 10:34 snap
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Templates
drwxr-xr-x 2 kayon-pc21 kayon-pc21 4096 Sep  4 11:11 Videos
root@kayonpc21:/home/kayon-pc21# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc21:/home/kayon-pc21# whatis ls
ls (1)                - list directory contents
root@kayonpc21:/home/kayon-pc21# whatis mkdir
mkdir (1)             - make directories
root@kayonpc21:/home/kayon-pc21# mkdir informatika
root@kayonpc21:/home/kayon-pc21# rm -r informatika

Command 'rm -r' not found, did you mean:

  command 'rm -r' from deb coreutils

Try: apt install <deb name>

root@kayonpc21:/home/kayon-pc21#
```

```
Terminal - root@kayonpc21: /home/kayon-pc21

root@kayonpc21:/home/kayon-pc21# touch rpltxt
root@kayonpc21:/home/kayon-pc21# rm rpltxt
root@kayonpc21:/home/kayon-pc21# which mkdir
/bin/mkdir
root@kayonpc21:/home/kayon-pc21# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayonpc21:/home/kayon-pc21# df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            4009336      0   4009336   0% /dev
tmpfs           810368     1344    809024   1% /run
/dev/sda4       20026192 9340088  9645772  50% /
tmpfs           4051824      0   4051824   0% /dev/shm
tmpfs           5120         4     5116    1% /run/lock
tmpfs           4051824      0   4051824   0% /sys/fs/cgroup
tmpfs           810364     16    810348   1% /run/user/1000
root@kayonpc21:/home/kayon-pc21# du
4      ./informatika
4      ./snap/gnome-system-monitor
0      ./snap
44     ./gnome2/gtksourceview-1.0/language-specs
48     ./gnome2/gtksourceview-1.0
52     ./gnome2
4      ./gnupg/private-keys-v.1.d
0      ./gnupg
632    ./thumbnails/normal
632    ./thumbnails
0      ./config/ristretto
0      ./config/update-notifier
4      ./config/kicad
12     ./config/xfce4/terminal
0      ./config/xfce4/panel/launcher-12
0      ./config/xfce4/panel/launcher-14
0      ./config/xfce4/panel/launcher-15
0      ./config/xfce4/panel/launcher-13
40     ./config/xfce4/panel
76     ./config/xfce4/xfconf/xfce-perchannel-xml
0      ./config/xfce4/xfconf
4      ./config/xfce4/xfwm4
16     ./config/xfce4/desktop
160    ./config/xfce4
1016   ./config/libreoffice/4/user/database/biblio
1024   ./config/libreoffice/4/user/database
1152   ./config/libreoffice/4/user/backup
0      ./config/libreoffice/4/user/autotext
20     ./config/libreoffice/4/user/pack/database/biblio

root@kayonpc21:/home/kayon-pc21#
```

```
Terminal - root@kayonpc21: /home/kayon-pc21

0      ./local/share/applications
4      ./local/share/xfpanel-switch
4      ./local/share/nano
12     ./local/share/keyrings
552    ./local/share/NetcadExamPlayer/QtWebEngine/Default/GPUCache
556    ./local/share/NetcadExamPlayer/QtWebEngine/Default
560    ./local/share/NetcadExamPlayer/QtWebEngine
564    ./local/share/NetcadExamPlayer
688    ./local/share
692    ./local
4      ./Public
944    ./cache/gstreamer-1.0
4      ./cache/obexd
820    ./cache/gnome-software/icons
476    ./cache/gnome-software/odrs
12     ./cache/gnome-software/screenshots/112x63
0      ./cache/gnome-software/screenshots/752x423
104    ./cache/gnome-software/screenshots
180    ./cache/gnome-software/fwupd/remotes.d/lvfs
184    ./cache/gnome-software/fwupd/remotes.d
188    ./cache/gnome-software/fwupd
36     ./cache/gnome-software/cssresource
1628   ./cache/gnome-software
12     ./cache/update-manager-core
16     ./cache/fontconfig
0      ./cache/sessions/thumbs-kayonpc21:0
16     ./cache/sessions
588    ./cache/thumbnails/large
252    ./cache/thumbnails/normal
844    ./cache/thumbnails
4      ./cache/mozilla/firefox/zff6yxr.default
4      ./cache/mozilla/firefox/lnoszcz6.default-release/cache2/doomed
13812  ./cache/mozilla/firefox/lnoszcz6.default-release/cache2/entries
13848  ./cache/mozilla/firefox/lnoszcz6.default-release/cache2
260    ./cache/mozilla/firefox/lnoszcz6.default-release/OfflineCache
4      ./cache/mozilla/firefox/lnoszcz6.default-release/thumbnails
6552   ./cache/mozilla/firefox/lnoszcz6.default-release/safebrowsing/google4
7184   ./cache/mozilla/firefox/lnoszcz6.default-release/safebrowsing
13624  ./cache/mozilla/firefox/lnoszcz6.default-release/startupCache
34924  ./cache/mozilla/firefox/lnoszcz6.default-release
34932  ./cache/mozilla/firefox
34936  ./cache/mozilla
38412  ./cache
60140  ./
root@kayonpc21:/home/kayon-pc21#
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
38412 ../.cache
60140 .
root@kayonpc21:/home/kayon-pc21# free
              total        used        free      shared  buff/cache   available
Mem:           8193648       560328       6260440        10160       1282880       7252244
Swap:           947028              0         947028

root@kayonpc21:/home/kayon-pc21# 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 -- xfc4-session -- applet.py -- {applet.py}
        -- lightdm -- sh -- xfc4-session -- blueman-applet -- 3*[{blueman-applet}]
        -- lightdm -- sh -- xfc4-session -- light-locker -- 3*[{light-locker}]
        -- lightdm -- sh -- xfc4-session -- nm-applet -- 3*[{nm-applet}]
        -- lightdm -- sh -- xfc4-session -- polkit-gnome-au -- 2*[{polkit-gnome-au}]
        -- lightdm -- sh -- xfc4-session -- update-notifier -- 3*[{update-notifier}]
        -- lightdm -- sh -- xfc4-session -- 2*[{xfc4-session}]
        -- 2*[{lightdm}]
        -- 2*[{lightdm}]
        -- lvm2
        -- networkd-dispatcher -- {networkd-dispatcher}
        -- nvidia-persistenced
        -- packagekitd -- 2*[{packagekitd}]
        -- polkitd -- 2*[{polkitd}]
        -- pulseaudio -- {pulseaudio}
        -- rsyslogd -- 3*[{rsyslogd}]
        -- rtkit-daemon -- 2*[{rtkit-daemon}]
        -- sshd
        -- systemd -- (sd-pam)
        -- systemd -- at-spi-bus-launcher -- dbus-daemon
        -- systemd -- at-spi2-registrars -- 3*[{at-spi-bus-launcher}]
        -- systemd -- at-spi2-registrars -- 2*[{at-spi2-registrars}]
        -- systemd -- dbus-daemon
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
        -- at-spi2-registrars -- 2*[{at-spi2-registrars}]
        -- dbus-daemon
        -- dconf-service -- 2*[{dconf-service}]
        -- gvfs-afc-volume -- 3*[{gvfs-afc-volume}]
        -- gvfs-goa-volume -- 2*[{gvfs-goa-volume}]
        -- gvfs-gphoto2-volume -- 2*[{gvfs-gphoto2-volume}]
        -- gvfs-mtp-volume -- 2*[{gvfs-mtp-volume}]
        -- gvfs-udisks2-volume -- 2*[{gvfs-udisks2-volume}]
        -- gvfsd -- gvfsd-trash -- 2*[{gvfsd-trash}]
        -- gvfsd -- 2*[{gvfsd}]
        -- gvfsd-fuse -- 5*[{gvfsd-fuse}]
        -- indicator-messaged -- 3*[{indicator-messaged}]
        -- obexd
        -- xfc4-notifier -- 2*[{xfc4-notifier}]
        -- xfc4-notifier
        -- systemd-journald
        -- systemd-logind
        -- systemd-resolved
        -- systemd-timesyn -- {systemd-timesyn}
        -- systemd-udevd
        -- thermald -- {thermald}
        -- udisksd -- 4*[{udisksd}]
        -- unattended-upgr -- {unattended-upgr}
        -- upowerd -- 2*[{upowerd}]
        -- whoopsie -- 2*[{whoopsie}]
        -- wpa_supplicant
        -- xfc4-panel -- panel-1-whisker -- oosplash -- soffice.bin -- 7*[{soffice.bin}]
        -- xfc4-panel -- panel-1-whisker -- 2*[{oosplash}]
        -- xfc4-panel -- panel-1-whisker -- 2*[{panel-1-whisker}]
        -- xfc4-panel -- panel-4-systray
        -- xfc4-panel -- panel-5-notific -- 2*[{panel-5-notific}]
        -- xfc4-panel -- panel-6-indicat -- 2*[{panel-6-indicat}]
        -- xfc4-panel -- panel-7-statusn -- 2*[{panel-7-statusn}]
        -- xfc4-panel -- panel-8-power-m -- 2*[{panel-8-power-m}]
        -- xfc4-panel -- panel-9-pulseau -- 2*[{panel-9-pulseau}]
        -- xfc4-panel -- xfc4-screensho -- 2*[{xfc4-screensho}]
        -- xfc4-panel -- 2*[{xfc4-panel}]
        -- xfc4-power-man -- 2*[{xfc4-power-man}]
        -- xfc4-terminal -- bash -- sudo -- su -- bash -- pstree
        -- xfc4-terminal -- 2*[{xfc4-terminal}]
        -- xfdesktop -- 2*[{xfdesktop}]
        -- xfsettingsd -- 2*[{xfsettingsd}]
        -- xfwm4

root@kayonpc21:/home/kayon-pc21#
```

DAFTAR PERINTAH BESERTA FUNGSINYA

1. `echo halo dunia`
➔ menampilkan baris teks/menampilkan tulisan yang di buat setelah perintah echo dan itu tidak disimpan
2. `date`
➔ menampilkan tanggal dan waktu
3. `hostname`
➔ menampilkan nama dari komputer yang sedang dipakai / aktif
4. `arch`
➔ menampilkan jenis arsitektur dari sebuah mesin
5. `uname -a`
➔ menampilkan informasi dari kernel yang digunakan, versi kernel, tanggal pembuatan linux tersebut, dan lain-lain
6. `dmesg | more`
➔ mencetak pesan-pesan pada waktu proses boot dengan menampilkan perlayar
7. `uptime`
➔ mengetahui informasi tentang lama sistem berjalan setelah terakhir reboot atau mati
8. `whoami`
➔ menampilkan user yang sedang aktif
9. `who`
➔ menampilkan user yang sedang login saat ini
10. `id`
➔ menampilkan identitas user
11. `last`
➔ melihat user sebelumnya yang telah login di komputer
12. `finger`
➔ melihat informasi user
13. `w`
➔ untuk melihat siapa saja yang sedang login, dengan informasi yang sangat lengkap
14. `top`
➔ melihat semua proses yang sedang berjalan, diurutkan dari proses yang paling besar
15. `echo $shell`
➔ `bin/bash`
16. `echo {con,pre} {sent,fer} {s,ed}`
➔ akan menyusun banyak kata-kata
17. `man ls`
➔ menampilkan informasi tentang perintah 'ls'
18. `man who`
➔ menampilkan informasi tentang perintah 'who'
19. `who can tell me about linux`
➔ gagal (karena tidak bisa)
20. `clear`
➔ membersihkan jendela terminal
21. `fdisk -l`
➔ menampilkan list partisi pada perangkat
22. `users`
➔ menampilkan user user yang ada di linux
23. `cat /etc/fstab`
➔ melihat file system yang telah disetup
24. `cal 2000`
➔ untuk melihat kalender di tahun 2000

25. `cal 9 1752`
 - ➔ untuk melihat kalender dibulan September tahun 1752
26. `cal 10 2007`
 - ➔ untuk melihat kalender dibulan Oktober tahun 2007
27. `bc -l`
 - ➔ menampilkan versi bc (bahasa kalkulator)
28. `echo 5+4 | bc-l`
 - ➔ menampilkan hasil penjumlahan yaitu 9
29. `yes please`
 - ➔ cetak string 'please' sampai di interrupt
30. `pwd`
 - ➔ melihat direktori kerja yang pada saat itu aktif
31. `history`
 - ➔ untuk melihat riwayat perintah yang sudah pernah digunakan sebelumnya
32. `tail -f /var/log/message`
 - ➔ membaca file log tapi dimulai dari baris akhirnya
33. `lsmod`
 - ➔ melihat module-module kernel yang telah di load
34. `ps -axu`
 - ➔ melihat seluruh proses yang dijalankan, walaupun tanpa terminal control, juga ditampilkan nama dari user untuk setiap proses
35. `lspci`
 - ➔ melihat spesifikasi hardware dari komputer yang sedang kita gunakan
36. `free`
 - ➔ menampilkan penggunaan memori
37. `cat /proc/cpuinfo`
 - ➔ cpu info. Melihat file pada /proc direktori yang bukan merupakan file nyata (not real files)
38. `finger root`
 - ➔ melihat informasi user root
39. `reboot`
 - ➔ menjalankan perintah restart
40. `halt`
 - ➔ untuk mematikan komputer

YANG DIPAPAN TULIS

1. `ls`
 - ➔ melihat isi file dari directory aktif
2. `ls -l`
 - ➔ melihat semua file lengkap
3. `ls -l/home`
 - ➔ melihat semua file lengkap yang ada dihome
4. `whatis ls`
 - ➔ menampilkan manual atau deskripsi dari perintah ls
5. `whatis mkdir`
 - ➔ menampilkan manual atau deskripsi dari perintah mkdir
6. `mkdir informatika`
 - ➔ membuat direktori baru dengan nama informatika
7. `rmdir informatika`
 - ➔ menghapus direktori informatika

8. touch rpl.txt
➔ membuat sebuah file kosong bernama rpl.txt
9. rm rpl.txt
➔ menghapus file rpl.txt
10. which mkdir
➔ mengetahui letak file perintah
11. whereis ls
➔ menunjukkan lokasi file ls
12. df
➔ menampilkan penggunaan ruang disk pada file system
13. du
➔ menampilkan ukuran file secara rekursif
14. free
➔ menampilkan penggunaan memori
15. pstree
➔ menampilkan semua proses pada sistem dalam bentuk hirarki/parent