

Nama : Alfian Yulianto

NIM : L200180121

## 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 (buildde1gw01-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
=d825fa07-6c79-4d9d-86d9-4392dbfac110 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 0x0000000000000000-0x00000000000009d7ff] usable
[ 0.000000] BIOS-e820: [mem 0x00000000000009d800-0x00000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000000e0000-0x0000000000000ffffff] reserved
--More--
```

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

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    7      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 ni, 99,6 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 8183648 total, 6395128 free, 489436 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   0:00.09 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       20  -20   0     0   0     I   0,0   0,0   0:00.00 rcu_gp
   4 root       20  -20   0     0   0     I   0,0   0,0   0:00.00 rcu_par_gp
   6 root       20  -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 : 8183648 total, 6395128 free, 489436 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   0:00.09 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       20  -20   0     0   0     I   0,0   0,0   0:00.00 rcu_gp
   4 root       20  -20   0     0   0     I   0,0   0,0   0:00.00 rcu_par_gp
   6 root       20  -20   0     0   0     I   0,0   0,0   0:00.00 kworker/0:0H-kb
   8 root       20  -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       20   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 cpuhp/0
  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       20   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       20  -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      -51   0   0     0   0     S   0,0   0,0   0:00.00 idle_inject/2
  23 root       20   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       20  -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      -51   0   0     0   0     S   0,0   0,0   0:00.00 idle_inject/3
  29 root       20   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       20  -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       20  -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       20  -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 ksmd

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

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

15 root 20 0 0 0 0 0 0 0 0:00.00 cpuhp/1
16 root -51 0 0 0 0 0 0 0 0:00.00 idle_inject/1
17 root rt 0 0 0 0 0 0 0 0:00.00 migration/1
18 root 20 0 0 0 0 0 0 0 0:00.00 ksoftirqd/1
20 root 0 -20 0 0 0 0 0 0 0:00.00 kworker/1:0H-kb
21 root 20 0 0 0 0 0 0 0 0:00.00 cpuhp/2
22 root -51 0 0 0 0 0 0 0 0:00.00 idle_inject/2
23 root rt 0 0 0 0 0 0 0 0:00.00 migration/2
24 root 20 0 0 0 0 0 0 0 0:00.00 ksoftirqd/2
26 root 0 -20 0 0 0 0 0 0 0:00.00 kworker/2:0H-kb
27 root 20 0 0 0 0 0 0 0 0:00.00 cpuhp/3
28 root -51 0 0 0 0 0 0 0 0:00.00 idle_inject/3
29 root rt 0 0 0 0 0 0 0 0:00.00 migration/3
30 root 20 0 0 0 0 0 0 0 0:00.01 ksoftirqd/3
32 root 0 -20 0 0 0 0 0 0 0:00.00 kworker/3:0H-kb
33 root 20 0 0 0 0 0 0 0 0:00.00 kdevtmpfs
34 root 0 -20 0 0 0 0 0 0 0:00.00 netns
35 root 20 0 0 0 0 0 0 0 0:00.00 rcu_tasks_kthre
36 root 20 0 0 0 0 0 0 0 0:00.03 kauditd
37 root 20 0 0 0 0 0 0 0 0:00.00 khungtaskd
38 root 20 0 0 0 0 0 0 0 0:00.00 oom_reaper
39 root 0 -20 0 0 0 0 0 0 0:00.00 writeback
40 root 20 0 0 0 0 0 0 0 0:00.00 kcompactd0
41 root 25 5 0 0 0 0 0 0 0:00.00 ksmad

root@kayonpc21:/home/kayon-pc21# echo $SHELL
/bin/bash
root@kayonpc21:/home/kayon-pc21# echo {con,pre}{sent,fer}{s,e,d}
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       206647        20480    100M 7 HPFS/NTFS/exFAT
/dev/sda2          206648    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 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      1 2 3 4 5      1 2 3 4
9 10 11 12 13 14 15  6 7 8 9 10 11 12  5 6 7 8 9 10 11
16 17 18 19 20 21 22 13 14 15 16 17 18 12 13 14 15 16 17 18
19 20 21 22 23 24 25 26 27 28 29      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
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 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      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
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
/dev/sda4 935813120 976771071 40957952 19,56 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

      Januari          Februari          Maret
Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa  Mi Se Se Ra Ka Ju Sa
      2000
1      1      1      1
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 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
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# cal 9 1752
      September 1752
Mi Se Se Ra Ka Ju Sa
      1 2 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30

root@kayonpc21:/home/kayon-pc21# cal 10 2007
      Oktober 2007
Mi Se Se 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 31

root@kayonpc21:/home/kayon-pc21# 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'.

```





```
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
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
qnx4                   15360  0
hfsplus                110592  0
hfs                    61440  0
minix                  36864  0
ntfs                   106496  0
msdos                  20480  0
jfs                    188416  0
xfs                    1236992  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
crc16dif_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
cryptd                 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

root 6803 0.0 0.0 47236 3684 pts/0 R+ 17:08 0:00 ps -aux
root@kayonpc21:/home/kayon-pc21# lspci
00:00.0 Host bridge: Intel Corporation 4th Gen Core Processor DRAM Controller (rev 06)
00:01.0 PCI bridge: Intel Corporation Xeon E3-1200 v3/4th Gen Core Processor PCI Express x16 Controller (rev 06)
00:14.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB xHCI (rev 05)
00:16.0 Communication controller: Intel Corporation 8 Series/C220 Series Chipset Family MEI Controller #1 (rev 04)
00:1a.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB EHCI #2 (rev 05)
00:1b.0 Audio device: Intel Corporation 8 Series/C220 Series Chipset High Definition Audio Controller (rev 05)
00:1c.0 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #1 (rev d5)
00:1c.2 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family PCI Express Root Port #3 (rev d5)
00:1c.5 PCI bridge: Intel Corporation 82801 PCI Bridge (rev d5)
00:1d.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset Family USB EHCI #1 (rev 05)
00:1f.0 ISA bridge: Intel Corporation H81 Express LPC Controller (rev 05)
00:1f.2 SATA controller: Intel Corporation 8 Series/C220 Series Chipset Family 6-port SATA Controller 1 [AHCI mode] (rev 05)
00:1f.3 SMBus: Intel Corporation 8 Series/C220 Series Chipset Family SMBus Controller (rev 05)
01:00.0 VGA compatible controller: NVIDIA Corporation GM107 [GeForce GTX 750 Ti] (rev a2)
01:00.1 Audio device: NVIDIA Corporation Device 0fbc (rev a1)
03:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8169/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00.0 PCI bridge: ASMedia Technology Inc. ASM1083/1085 PCIe to PCI Bridge (rev 04)
root@kayonpc21:/home/kayon-pc21# free
              total        used        free      shared  buff/cache   available
Mem:           8103648       556432       6287076         9120       1260140       7258056
Swap:          947028            0         947028
root@kayonpc21:/home/kayon-pc21# 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        : 990.584
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
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 cpushd fault_ahb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms
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 cpushd fault_ahb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms
invpcid xsaveopt dtherm ida arat pln pts md clear flush lld
bugs           : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips       : 6584.94
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        : 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_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 cpushd fault_ahb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms
invpcid xsaveopt dtherm ida arat pln pts md clear flush lld
bugs           : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips       : 6584.94
clflush size   : 64
cache alignment : 64
address sizes  : 39 bits physical, 48 bits virtual
power management:

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

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

cpu 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 aperfmperf 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 vmfi 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 alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

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
mkdir (2) - create a directory
root@kayonpc21:/home/kayon-pc21# mkdir informatika
root@kayonpc21:/home/kayon-pc21# rmdir informatika
Command 'rmdir' not found, did you mean:
  command 'rmdir' 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
8      ./snap
44     ./gnome2/gtksourceview-1.0/language-specs
48     ./gnome2/gtksourceview-1.0
52     ./gnome2
4      ./gnupg/private-keys-v.1.d
8      ./gnupg
832    ./thumbnails/normal
636    ./thumbnails
8      ./config/ristretto
8      ./config/update-notifier
4      ./config/kicad
12     ./config/xfce4/terminal
8      ./config/xfce4/panel/launcher-12
8      ./config/xfce4/panel/launcher-14
8      ./config/xfce4/panel/launcher-15
8      ./config/xfce4/panel/launcher-13
40     ./config/xfce4/panel
76     ./config/xfce4/xfconf/xfce-perchannel-xml
80     ./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
8      ./config/libreoffice/4/user/autotext
20     ./config/libreoffice/4/user/pack/database/biblio
```

```
Terminal - root@kayonpc21: /home/kayon-pc21
File Edit View Terminal Tabs Help
8 ./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
588 ./local/share
692 ./local
4 ./Public
944 ./cache/gstreamer-1.0
4 ./cache/obexd
620 ./cache/gnome-software/icons
476 ./cache/gnome-software/odrs
12 ./cache/gnome-software/screenshots/112x63
36 ./cache/gnome-software/screenshots/752x423
184 ./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
6 ./cache/sessions/thumbs-kayonpc21:0
16 ./cache/sessions
588 ./cache/thumbnails/large
252 ./cache/thumbnails/normal
844 ./cache/thumbnails
4 ./cache/mozilla/firefox/znff6yxr.default
4 ./cache/mozilla/firefox/lnoszcz6.default-release/cache2/doomed
13012 ./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:      8103648      560328      6260440       10160       1282880       7252244
Swap:      947028           0       947028

root@kayonpc21: /home/kayon-pc21# pstree
systemd -- ModemManager -- 2*[{ModemManager}]
          |   NetworkManager -- dhcpcd
          |   |   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
          |   |   |   |   xfce4-session -- applet.py -- {applet.py}
          |   |   |   |   |   bluedman-applet -- 3*[{bluedman-applet}]
          |   |   |   |   |   |   light-locker -- 3*[{light-locker}]
          |   |   |   |   |   |   nm-applet -- 3*[{nm-applet}]
          |   |   |   |   |   |   polkit-gnome-au -- 2*[{polkit-gnome-au}]
          |   |   |   |   |   |   |   update-notifier -- 3*[{update-notifier}]
          |   |   |   |   |   |   |   2*[{xfce4-session}]
          |   |   |   |   |   2*[{lightdm}]
          |   |   |   |   2*[{lightdm}]
          |   |   -lvmetad
          |   |   -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}
          |   |   |   at-spi-bus-launcher -- dbus-daemon
          |   |   |   |   at-spi2-registrars -- 3*[{at-spi-bus-launcher}]
          |   |   |   |   at-spi2-registrars -- 2*[{at-spi2-registrars}]
          |   |   |   dbus-daemon
```



11. **Last** : Berfungsi untuk menampilkan daftar login terakhir yang ada pada sistem dengan melakukan pengambilan data dari file `/var/log/wtmp`.
12. **Finger** : Perintah untuk melihat informasi finger
13. **W** : Perintah untuk mengetahui siapa saja yang sedang aktif.
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. **Last** : Berfungsi untuk menampilkan daftar login terakhir yang ada pada sistem dengan melakukan pengambilan data dari file `/var/log/wtmp`.
21. **Clear** : Perintah untuk menghapus layar.
22. **Fdisk -l** : Menampilkan list partisi pada perangkat.
23. **Users** : Berfungsi untuk menampilkan daftar user yang sedang aktif pada sebuah perangkat.
24. **Cat /etc/fstab** : Melihat file system yang telah disetup
25. **Cal 2000** : Untuk melihat kalemder ditahun 2000.
26. **Cal 9 1752** : Untuk melihat kalender dibulan September tahun 1752.
27. **Cal 10 2007** : Untuk melihat kalender dibulan Oktober tahun 2007.
28. **Bc -l** : Menampilkan versi bc (bahasa kalkulator).
29. **Echo 5+4 | bc-l** : Menampilkan hasil penjumlahan yaitu 9.
30. **Yes please** : Cetak String “Please” sampai interrupt.
31. **Pwd** : Digunakan untuk memperlihatkan di direktori mana posisi kita berada sekarang.
32. **History** : Berfungsi untuk menampilkan riwayat perintah yang digunakan.
33. **Tail -f /var/log/mesage** :
34. **Lsmod** : Untuk menampilkan module /driver 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 komputer yang sedang kita gunakan.

37. **Free** : Melihat informasi penggunaan memory (RAM dan swap).
38. **Cat /proc/cpuinfo** : CPU info. Melihat pada/proc directory yang bukan merupakan file nyata (Not real files).
39. **Finger root** : Melihat informasi finger root.
40. **Reboot** : Berfungsi untuk menghidupkan ulang atau melakukan *restart* sistem sebuah komputer yang sedang hidup atau sedang berjalan.
41. **Halt** : Perintah ini hanya bisa dijalankan oleh super user atau Anda harus login sebagai root. Perintah ini untuk memberitahu kernel supaya mematikan sistem atau shutdown.