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Kelas : C

## Modul 5

```
Terminal - kayon-pc10@kayonpc10: ~
File Edit View Terminal Tabs Help

kayon-pc10@kayonpc10:~$
kayon-pc10@kayonpc10:~$ echo halo dunia
halo dunia
kayon-pc10@kayonpc10:~$ date
Sat Nov  5 10:45:37 WIB 2019
kayon-pc10@kayonpc10:~$ hostname
kayonpc10
kayon-pc10@kayonpc10:~$ arch
x86_64
kayon-pc10@kayonpc10:~$ uname -a
Linux kayonpc10 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
kayon-pc10@kayonpc10:~$ 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
=d43b4bb9-b6ca-44cd-880d-d343dd070f2 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 0x0000000000000000-0x00000000000009d7fff] usable
[ 0.000000] BIOS-e820: [mem 0x00000000000009d800-0x00000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000000e0000-0x0000000000000fffff] reserved
kayon-pc10@kayonpc10:~$
kayon-pc10@kayonpc10:~$ q

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

sudo snap install q # version 1.6.3-1, or
sudo apt install python-q-text-as-data
sudo apt install python3-q-text-as-data

See 'snap info q' for additional versions.
```

```
Terminal - kayon-pc10@kayonpc10: ~
File Edit View Terminal Tabs Help

kayon-pc10@kayonpc10:~$ uptime
10:47:23 up 14 min, 1 user, load average: 0.00, 0.04, 0.09
kayon-pc10@kayonpc10:~$ whoami
kayon-pc10
kayon-pc10@kayonpc10:~$ who
kayon-pc10 tty7 2019-11-05 17:33 (:0)
kayon-pc10@kayonpc10:~$ id
uid=1000(kayon-pc10) gid=1000(kayon-pc10) groups=1000(kayon-pc10),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),118(lpadmin),126(sambashare)
kayon-pc10@kayonpc10:~$ last

wtmp begins Tue Nov  5 10:37:59 2019
kayon-pc10@kayonpc10:~$ finger
Login      Name            Tty          Idle   Login Time   Office   Office Phone
kayon-pc10 kayon-pc10 tty7              Nov  5 17:33 (:0)
kayon-pc10@kayonpc10:~$ w
10:47:49 up 15 min, 1 user, load average: 0.00, 0.04, 0.08
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
kayon-pc tty7      :0                17:33    ?      2.21s  0.01s /bin/sh /etc/xd
kayon-pc10@kayonpc10:~$ top

top - 10:47:59 up 15 min, 1 user, load average: 0.00, 0.04, 0.08
Tasks: 179 total, 1 running, 131 sleeping, 0 stopped, 0 zombie
%Cpu(s):  0.1 us,  0.1 sy,  0.0 ni, 99.8 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
KiB Mem : 8103664 total, 6747480 free, 471064 used, 885120 buff/cache
KiB Swap: 947028 total, 947028 free,  0 used, 7355584 avail Mem

  PID USER      PR  NI   VIRT    RES    SHR   S  %CPU  %MEM    TIME+  COMMAND
  10 root        20   0       0       0       0   I    0.3   0.0   0:02.33 rcu_sched
 941 root        20   0 353952 56692 41592   S    0.3   0.7   0:02.23 Xorg
 956 root      -51   0       0       0       0   S    0.3   0.0   0:01.02 irq/28-mvi+
2976 kayon-p+  20   0 51648  4016 3380   R    0.3   0.0   0:00.02 top
   1 root        20   0 159888 9140  6700   S    0.0   0.1   0:01.18 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+
   8 root        0 -20    0       0       0   I    0.0   0.0   0:00.00 mm_percpu.+
   9 root        20   0       0       0       0   S    0.0   0.0   0:00.00 ksoftirqd/0
  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_injec+
  13 root        20   0       0       0       0   I    0.0   0.0   0:00.00 kworker/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_injec+
kayon-pc10@kayonpc10:~$ q
```

```
Terminal - kayon-pc10@kayonpc10: ~
File Edit View Terminal Tabs Help
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See 'snap info q' for additional versions.

kayon-pc10@kayonpc10:~$ echo $SHELL
/bin/bash
kayon-pc10@kayonpc10:~$ echo {con,pre}{sent,fer}{s,ed}
(con,pre)sents pre)sented pre)fers pre)ferred
kayon-pc10@kayonpc10:~$ man ls
No manual entry for ls
kayon-pc10@kayonpc10:~$ man ls
kayon-pc10@kayonpc10:~$
kayon-pc10@kayonpc10:~$ q
Command 'q' not found, but can be installed with:

sudo snap install q # version 1.6.3-1, or
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See 'snap info q' for additional versions.

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See 'snap info q' for additional versions.

kayon-pc10@kayonpc10:~$ who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
kayon-pc10@kayonpc10:~$ last

wtmp begins Tue Nov 5 10:37:59 2019
kayon-pc10@kayonpc10:~$ f disk -l
```

```
Terminal - root@kayonpc10: /home/kayon-pc10
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 1/207 20% (press h for help or q to quit)
```

```
Terminal - root@kayonpc10: /home/kayon-pc10
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
  -M, --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@kayonpc10: /home/kayon-pc10
File Edit View Terminal Tabs Help
/dev/sda3 409602048 935813119 526211072 250,9G 7 HPFS/NTFS/exFAT
/dev/sda4 935813120 976771071 40957952 19,5G 83 Linux

root@kayonpc10:/home/kayon-pc10# ma ls
ma: command not found
root@kayonpc10:/home/kayon-pc10# man ls
root@kayonpc10:/home/kayon-pc10# man who
root@kayonpc10:/home/kayon-pc10# man ls
root@kayonpc10:/home/kayon-pc10# man who
root@kayonpc10:/home/kayon-pc10# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayonpc10:/home/kayon-pc10# last

wtmp begins Tue Nov 5 10:37:59 2019
root@kayonpc10:/home/kayon-pc10# fdisk -l
Disk /dev/sda: 465.8 GiB, 500107862016 bytes, 97673168 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: 0x0e0875a7

Device Boot Start End Sectors Size Id Type
/dev/sda1 * 2048 206847 204800 100M 7 HPFS/NTFS/exFAT
/dev/sda2 206848 409602047 409395200 195,2G 7 HPFS/NTFS/exFAT
/dev/sda3 409602048 935813119 526211072 250,9G 7 HPFS/NTFS/exFAT
/dev/sda4 935813120 976771071 40957952 19,5G 83 Linux

root@kayonpc10:/home/kayon-pc10# users
kayon-pc10
root@kayonpc10:/home/kayon-pc10# 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).
#
# <file system> <mount point> <type> <options> <dump> <pass>
# / was on /dev/sda4 during installation
UUID=d43b4bb9-b6ca-44cd-890d-d3434dd070f2 / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayonpc10:/home/kayon-pc10#
```

```
Terminal - root@kayonpc10: /home/kayon-pc10
File Edit View Terminal Tabs Help
# <file system> <mount point> <type> <options> <dump> <pass>
# / was on /dev/sda4 during installation
UUID=d43b4bb5-b6ca-44cd-880d-d3434dd070f2 / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayonpc10: /home/kayon-pc10# cal 2000
2000
January February Maret
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 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
I
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
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 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@kayonpc10: /home/kayon-pc10# 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
root@kayonpc10: /home/kayon-pc10# cal 10 2007
October 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 31
root@kayonpc10: /home/kayon-pc10# 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'.
q
0
bc -l
0
echo 5+4 | bc -l
(standard_in) 3: syntax error
(standard_in) 3: illegal character: |
(standard_in) 3: syntax error
quit
root@kayonpc10: /home/kayon-pc10# echo 5+4 | bc -l
9
root@kayonpc10: /home/kayon-pc10# yes please
```

```
Terminal - root@kayonpc10: /home/kayon-pc10
File Edit View Terminal Tabs Help
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 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@kayonpc10: /home/kayon-pc10# 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
root@kayonpc10: /home/kayon-pc10# cal 10 2007
October 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 31
root@kayonpc10: /home/kayon-pc10# 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'.
q
0
bc -l
0
echo 5+4 | bc -l
(standard_in) 3: syntax error
(standard_in) 3: illegal character: |
(standard_in) 3: syntax error
quit
root@kayonpc10: /home/kayon-pc10# echo 5+4 | bc -l
9
root@kayonpc10: /home/kayon-pc10# yes please
```



```
Terminal - root@kayonpc10: /home/kayon-pc10
File Edit View Terminal Tabs Help
1023 cal
1024 cal 8 2010
1025 history
1026 cal 2017
1027 date
1028 dir
1029 last
1030 who
1031 echo 2000 + 18
1032 echo 2000 + 18 | -l
1033 ipconfig
1034 iconfig
1035 config
1036 echo ums
1037 who
1038 hostname
1039 cal 7 2017
1040 history
1041 cal 2017
1042 date
1043 dir
1044 config
1045 echo 2000 + 18 | -l
1046 fdisk -l
1047 ma ls
1048 man ls
1049 man who
1050 man ls
1051 man who
1052 who can tell me about linux
1053 last
1054 fdisk -l
1055 users
1056 cat /etc/fstab
1057 cal 2000
1058 cal 9 1752
1059 cal 10 2007
1060 bc -l
1061 echo 5+4 | bc -l
1062 yes please
1063 pwd
1064 history
1065 pwd
1066 history
root@kayonpc10: /home/kayon-pc10#
```

```
Terminal - root@kayonpc10: /home/kayon-pc10
File Edit View Terminal Tabs Help
rtkit 1052 0.0 0.0 103500 3016 ? Ssl 10:33 0:00 /usr/lib/rtkit/rtkit-daemon
root 1059 0.0 0.1 322792 8284 ? Ssl 10:33 0:00 /usr/lib/upower/upowerd
kayon-pc1 1060 0.0 0.1 415240 15912 ? Ssl 10:33 0:00 /usr/lib/x86_64-linux-gnu/xfce4/notifyd/xfce4-notifyd
kayon-pc1 1090 0.0 0.4 492832 36380 ? SL 10:33 0:02 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libwhiskermenu.so 1 10485785 whi
kayon-pc1 1098 0.0 0.1 177140 14616 ? S 10:33 0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-1.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libsysstray.so 4 10485786 sysstray
kayon-pc1 1099 0.0 0.3 404064 31084 ? SL 10:33 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 1048
kayon-pc1 1090 0.0 0.3 480184 29980 ? SL 10:33 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 1048578
kayon-pc1 1091 0.0 0.4 557964 33516 ? SL 10:33 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 10485789
kayon-pc1 1092 0.0 0.4 406300 33016 ? SL 10:33 0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libfce4powermanager.so 8 104857
kayon-pc1 1093 0.0 0.4 700192 34884 ? SL 10:33 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 104857
kayon-pc1 1028 0.0 0.1 306908 8564 ? Ssl 10:33 0:00 /usr/lib/gvfs/gvfs-udisks2-volume-monitor
kayon-pc1 1029 0.0 0.0 373436 7676 ? Ssl 10:33 0:00 /usr/lib/x86_64-linux-gnu/indicator-messages/indicator-messages-service
kayon-pc1 1038 0.0 0.0 289264 6720 ? Ssl 10:33 0:00 /usr/lib/gvfs/gvfs-gphoto2-volume-monitor
kayon-pc1 1046 0.0 0.0 274512 6056 ? Ssl 10:33 0:00 /usr/lib/gvfs/gvfs-goa-volume-monitor
kayon-pc1 1050 0.0 0.0 276340 6092 ? Ssl 10:33 0:00 /usr/lib/gvfs/gvfs-mtp-volume-monitor
kayon-pc1 1054 0.0 0.0 379280 7692 ? Ssl 10:33 0:00 /usr/lib/gvfs/gvfs-afc-volume-monitor
kayon-pc1 1062 0.0 0.0 368544 7484 ? SL 10:33 0:00 /usr/lib/gvfs/gvfsd-trash --spawner :1.19 /org/gtk/gvfs/exec_spaw/0
root 2092 0.0 0.1 374164 13856 ? Ssl 10:33 0:00 /usr/lib/cockpit/cockpitd
kayon-pc1 2165 0.0 0.0 82724 6908 ? Ss 10:33 0:00 /usr/lib/bluetooth/obexd
root 2862 0.0 0.1 108148 8124 ? Ss 10:37 0:00 /usr/sbin/cupsd -l
root 2863 0.0 0.1 303520 10852 ? Ssl 10:37 0:00 /usr/sbin/cups-browsed
root 2867 0.0 0.0 0 0 ? I 10:37 0:00 [worker/0:0-cgr]
kayon-pc1 2928 0.0 0.4 559764 37100 ? SL 10:42 0:00 xfce4-appfinder
kayon-pc1 2936 0.7 0.5 591696 43908 ? SL 10:42 0:19 /usr/bin/xfce4-terminal
kayon-pc1 2940 0.0 0.0 30032 5020 pts/0 Ss 10:42 0:00 bash
root 2975 0.0 0.0 0 0 ? I 10:47 0:00 [worker/1:1-cgr]
kayon-pc1 3097 0.0 0.0 204836 4836 ? Ssl 10:53 0:00 /usr/lib/gvfs/gvfsd-metadata
kayon-pc1 3108 0.0 0.0 153012 6232 ? SL 10:54 0:00 /usr/lib/libreoffice/program/oosplash --writer
kayon-pc1 3125 5.7 3.4 1481156 279540 ? SL 10:54 1:52 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
kayon-pc1 3938 0.0 0.4 444484 7992 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-network --spawner :1.19 /org/gtk/gvfs/exec_spaw/2
kayon-pc1 3956 0.0 0.2 772848 18324 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-smb-browse --spawner :1.19 /org/gtk/gvfs/exec_spaw/6
kayon-pc1 3969 0.0 0.0 529356 8100 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-dnssd --spawner :1.19 /org/gtk/gvfs/exec_spaw/7
root 4843 0.0 0.0 73424 4512 pts/0 S 11:03 0:00 sudo su
root 4844 0.0 0.0 72712 3936 pts/0 S 11:04 0:00 su
root 4845 0.0 0.0 30084 5044 pts/0 S 11:04 0:00 bash
kayon-pc1 4921 0.0 0.2 455120 20620 ? SML 11:06 0:00 /usr/lib/x86_64-linux-gnu/tumbler-1/tumblerd
root 4953 0.1 0.0 0 0 ? I 11:07 0:01 [worker/u8:3-ev]
root 6025 0.0 0.0 0 0 ? I 11:09 0:00 [worker/2:2-cgr]
root 6333 0.1 0.0 0 0 ? I 11:19 0:00 [worker/u8:0-ev]
root 9324 0.0 0.0 0 0 ? I 11:24 0:00 [worker/u8:1]
root 9379 0.0 0.0 47236 3756 pts/0 R+ 11:26 0:00 ps -aux
root@kayonpc10: /home/kayon-pc10# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayonpc10: /home/kayon-pc10# lsmod
```

```
Terminal - root@kayonpc10: /home/kayon-pc10
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
soundcore 16384 1 snd
lpc_ich 24576 0
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 1 btrfs
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 1119008 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
r3169 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@kayonpc10: /home/kayon-pc10# ps -aux
```

```
Terminal - root@kayonpc10: /home/kayon-pc10
File Edit View Terminal Tabs Help

kayon-pc1 1830 0.0 0.2 332340 21800 ? Ssl 10:33 0:00 /usr/lib/policykit-1-gnome/polkit-gnome-authentication-agent-1
kayon-pc1 1849 0.0 0.1 574768 11320 ? Ssl 10:33 0:00 /usr/bin/pulseaudio --start --log-target=syslog
rtkit 1852 0.0 0.0 183500 3016 ? Sssl 10:33 0:00 /usr/lib/rtkit/rtkit-daemon
root 1859 0.0 0.1 322792 8284 ? Ssl 10:33 0:00 /usr/lib/upower/upowerd
kayon-pc1 1860 0.0 0.1 415240 15912 ? Ssl 10:33 0:00 /usr/lib/x86_64-linux-gnu/xfce4/notifyd/xfce4-notifyd
kayon-pc1 1890 0.0 0.4 492832 36380 ? Sl 10:33 0:02 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libwhiskermenu.so 1 10485785 systray
kayon-pc1 1898 0.0 0.1 177140 14616 ? S 10:33 0:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libsysstray.so 4 10485786 systray
kayon-pc1 1899 0.0 0.3 404064 31084 ? Sl 10:33 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 10485787 notification-plugin
kayon-pc1 1900 0.0 0.3 480184 29880 ? Sl 10:33 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 10485788 indicator-plugin
kayon-pc1 1901 0.0 0.4 557964 33516 ? Sl 10:33 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 10485789 status-notifier
kayon-pc1 1902 0.0 0.4 406300 33016 ? Sl 10:33 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 10485790 xfce4-power-manager
kayon-pc1 1903 0.0 0.4 700192 34884 ? Sl 10:33 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 10485791 pulseaudio
kayon-pc1 1928 0.0 0.1 306908 8564 ? Ssl 10:33 0:00 /usr/lib/gvfs/gvfs-udisks2-volume-monitor
kayon-pc1 1929 0.0 0.0 373436 7676 ? Ssl 10:33 0:00 /usr/lib/x86_64-linux-gnu/indicator-messages/indicator-messages-service
kayon-pc1 1938 0.0 0.0 209264 6720 ? Ssl 10:33 0:00 /usr/lib/gvfs/gvfs-gphoto2-volume-monitor
kayon-pc1 1946 0.0 0.0 274512 6056 ? Ssl 10:33 0:00 /usr/lib/gvfs/gvfs-goa-volume-monitor
kayon-pc1 1950 0.0 0.0 276340 6092 ? Ssl 10:33 0:00 /usr/lib/gvfs/gvfs-mtp-volume-monitor
kayon-pc1 1954 0.0 0.0 379280 7692 ? Ssl 10:33 0:00 /usr/lib/gvfs/gvfs-afc-volume-monitor
kayon-pc1 1962 0.0 0.0 360544 7484 ? Sl 10:33 0:00 /usr/lib/gvfs/gvfsd-trash --spawner :1.19 /org/gtk/gvfs/exec_spaw/0
root 2092 0.0 0.1 374164 13856 ? Ssl 10:33 0:00 /usr/lib/packagekit/packagekitd
kayon-pc1 2165 0.0 0.0 82724 6908 ? Ss 10:33 0:00 /usr/lib/bluetooth/obexd
root 2862 0.0 0.1 108148 8124 ? Ss 10:37 0:00 /usr/sbin/cupsd -l
root 2863 0.0 0.1 303520 10852 ? Ssl 10:37 0:00 /usr/sbin/cups-browsed
root 2867 0.0 0.0 0 0 ? I 10:37 0:00 [kworker/0:0-cgr]
kayon-pc1 2928 0.0 0.4 559764 37100 ? Sl 10:42 0:00 xfce4-appfinder
kayon-pc1 2936 0.7 0.5 591696 43908 ? Rl 10:42 0:20 /usr/bin/xfce4-terminal
kayon-pc1 2940 0.0 0.0 30032 5020 pts/0 Ss 10:42 0:00 bash
root 2975 0.0 0.0 0 0 ? I 10:47 0:00 [kworker/1:1-cgr]
kayon-pc1 3097 0.0 0.0 204836 4836 ? Ssl 10:53 0:00 /usr/lib/gvfs/gvfsd-metadata
kayon-pc1 3108 0.0 0.0 153012 6232 ? Sl 10:54 0:00 /usr/lib/libreoffice/program/oosplash --writer
kayon-pc1 3125 5.9 3.5 1481992 285000 ? Sl 10:54 2:14 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
kayon-pc1 3938 0.0 0.0 444484 7992 ? Sl 10:56 0:00 /usr/lib/gvfs/gvfsd-network --spawner :1.19 /org/gtk/gvfs/exec_spaw/2
kayon-pc1 3956 0.0 0.2 772848 18324 ? Sl 10:56 0:00 /usr/lib/gvfs/gvfsd-smb-browse --spawner :1.19 /org/gtk/gvfs/exec_spaw/6
kayon-pc1 3969 0.0 0.0 529356 8100 ? Sl 10:56 0:00 /usr/lib/gvfs/gvfsd-dnssd --spawner :1.19 /org/gtk/gvfs/exec_spaw/7
root 4843 0.0 0.0 73424 4512 pts/0 S 11:03 0:00 sudo su
root 4844 0.0 0.0 72712 3936 pts/0 S 11:04 0:00 su
root 4845 0.0 0.0 30084 5044 pts/0 S 11:04 0:00 bash
kayon-pc1 4921 0.0 0.2 455120 20620 ? Sml 11:06 0:00 /usr/lib/x86_64-linux-gnu/tumbler-1/tumblerd
root 4953 0.1 0.0 0 0 ? I 11:07 0:01 [kworker/u8:3-ev]
root 6025 0.0 0.0 0 0 ? I 11:09 0:00 [kworker/2:2-cgr]
root 6333 0.0 0.0 0 0 ? I 11:19 0:00 [kworker/u8:0-ev]
kayon-pc1 10144 0.3 0.5 535060 47572 ? Sl 11:27 0:00 ristretto /home/kayon-pc10/Documents/linux 12.png
root 10671 0.0 0.0 0 0 ? I 11:30 0:00 [kworker/u8:1-ev]
root 10715 0.0 0.0 47236 3704 pts/0 R+ 11:31 0:00 ps -aux
root@kayonpc10: /home/kayon-pc10# lspci
```



```
Terminal - root@kayonpc10: /home/kayon-pc10
File Edit View Terminal Tabs Help
kayon-pc 1962 0.0 0.0 368544 7484 ? SL 10:33 0:00 /usr/lib/gvfs/gvfsd-trash --spawner :1.19 /org/gtk/gvfs/exec_spaw/0
root 2092 0.0 0.1 374164 13856 ? Ssl 10:33 0:00 /usr/lib/packagekit/packagekitd
kayon-pc 2165 0.0 0.0 82724 6908 ? Ss 10:33 0:00 /usr/lib/bluetooth/obexd
root 2862 0.0 0.1 108148 8124 ? Ssl 10:37 0:00 /usr/sbin/cupsd -l
root 2863 0.0 0.1 303520 10852 ? Ssl 10:37 0:00 /usr/sbin/cups-browsed
root 2867 0.0 0.0 0 0 ? I 10:37 0:00 [worker/0:0:cgr]
kayon-pc 2928 0.0 0.4 559764 37100 ? SL 10:42 0:00 xfce4-appfinder
kayon-pc 2936 0.7 0.5 591696 43908 ? RL 10:42 0:20 /usr/bin/xfce4-terminal
kayon-pc 2940 0.0 0.0 30032 5020 pts/0 Ss 10:42 0:00 bash
root 2975 0.0 0.0 0 0 ? I 10:47 0:00 [worker/1:1:cgr]
kayon-pc 3097 0.0 0.0 204836 4836 ? Ssl 10:53 0:00 /usr/lib/gvfs/gvfsd-metadata
kayon-pc 3188 0.0 0.0 153012 6232 ? SL 10:54 0:00 /usr/lib/libreoffice/program/oosplash --writer
kayon-pc 3125 5.9 3.5 1481992 285080 ? SL 10:54 2:14 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
kayon-pc 3938 0.0 0.0 444484 7992 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-network --spawner :1.19 /org/gtk/gvfs/exec_spaw/2
kayon-pc 3956 0.0 0.2 772848 18324 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-smb-browse --spawner :1.19 /org/gtk/gvfs/exec_spaw/6
kayon-pc 3969 0.0 0.0 529356 8100 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-dnssd --spawner :1.19 /org/gtk/gvfs/exec_spaw/7
root 4843 0.0 0.0 73424 4512 pts/0 S 11:03 0:00 sudo su
root 4844 0.0 0.0 72712 3936 pts/0 S 11:04 0:00 su
root 4845 0.0 0.0 30804 5044 pts/0 S 11:04 0:00 bash
kayon-pc 4921 0.0 0.2 455120 20620 ? SML 11:06 0:00 /usr/lib/x86_64-linux-gnu/tumbler-1/tumblerd
root 4953 0.1 0.0 0 0 ? I 11:07 0:01 [worker/u8:3-ev]
root 6025 0.0 0.0 0 0 ? I 11:09 0:00 [worker/2:2:cgr]
root 6333 0.0 0.0 0 0 ? I 11:19 0:00 [worker/u8:0-ev]
kayon-pc 10144 0.3 0.5 535060 47572 ? SL 11:27 0:00 ristretto /home/kayon-pc10/Documents/linux 12.png
root 10671 0.0 0.0 0 0 ? I 11:30 0:00 [worker/u8:1-ev]
root 10715 0.0 0.0 47236 3704 pts/0 Rt+ 11:31 0:00 ps -axu
root@kayonpc10:/home/kayon-pc10# 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. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00.0 PCI bridge: ASMedia Technology Inc. ASM1083/1085 PCIe to PCI Bridge (rev 04)
root@kayonpc10:/home/kayon-pc10# free
```

```
Terminal - root@kayonpc10: /home/kayon-pc10
File Edit View Terminal Tabs Help
root 2863 0.0 0.1 303520 10852 ? Ssl 10:37 0:00 /usr/sbin/cups-browsed
root 2867 0.0 0.0 0 0 ? I 10:37 0:00 [worker/0:0:cgr]
kayon-pc 2928 0.0 0.4 559764 37100 ? SL 10:42 0:00 xfce4-appfinder
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root 2975 0.0 0.0 0 0 ? I 10:47 0:00 [worker/1:1:cgr]
kayon-pc 3097 0.0 0.0 204836 4836 ? Ssl 10:53 0:00 /usr/lib/gvfs/gvfsd-metadata
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kayon-pc 3956 0.0 0.2 772848 18324 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-smb-browse --spawner :1.19 /org/gtk/gvfs/exec_spaw/6
kayon-pc 3969 0.0 0.0 529356 8100 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-dnssd --spawner :1.19 /org/gtk/gvfs/exec_spaw/7
root 4843 0.0 0.0 73424 4512 pts/0 S 11:03 0:00 sudo su
root 4844 0.0 0.0 72712 3936 pts/0 S 11:04 0:00 su
root 4845 0.0 0.0 30804 5044 pts/0 S 11:04 0:00 bash
kayon-pc 4921 0.0 0.2 455120 20620 ? SML 11:06 0:00 /usr/lib/x86_64-linux-gnu/tumbler-1/tumblerd
root 4953 0.1 0.0 0 0 ? I 11:07 0:01 [worker/u8:3-ev]
root 6025 0.0 0.0 0 0 ? I 11:09 0:00 [worker/2:2:cgr]
root 6333 0.0 0.0 0 0 ? I 11:19 0:00 [worker/u8:0-ev]
kayon-pc 10144 0.3 0.5 535060 47572 ? SL 11:27 0:00 ristretto /home/kayon-pc10/Documents/linux 12.png
root 10671 0.0 0.0 0 0 ? I 11:30 0:00 [worker/u8:1-ev]
root 10715 0.0 0.0 47236 3704 pts/0 Rt+ 11:31 0:00 ps -axu
root@kayonpc10:/home/kayon-pc10# lspci
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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. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00.0 PCI bridge: ASMedia Technology Inc. ASM1083/1085 PCIe to PCI Bridge (rev 04)
root@kayonpc10:/home/kayon-pc10# free
              total        used        free      shared  buff/cache   available
Mem:           8103664        608848        6371028        31160       1123788       7192880
Swap:           947028            0          947028
root@kayonpc10:/home/kayon-pc10# cat /proc/cpuinfo
```



```
Terminal - root@kayonpc10: /home/kayon-pc10
File Edit View Terminal Tabs Help
kayon-pc 3125 5.9 3.5 1481992 285080 ? SL 10:54 2:14 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
kayon-pc 3938 0.0 0.0 444484 7992 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-network --spawner :1.19 /org/gtk/gvfs/exec_spaw/2
kayon-pc 3956 0.0 0.2 772848 18324 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-smb-browse --spawner :1.19 /org/gtk/gvfs/exec_spaw/6
kayon-pc 3969 0.0 0.0 529356 8100 ? SL 10:56 0:00 /usr/lib/gvfs/gvfsd-dnssd --spawner :1.19 /org/gtk/gvfs/exec_spaw/7
root 4843 0.0 0.0 73424 4512 pts/0 S 11:03 0:00 sudo su
root 4844 0.0 0.0 72712 3936 pts/0 S 11:04 0:00 su
root 4845 0.0 0.0 30084 5044 pts/0 S 11:04 0:00 bash
kayon-pc 4921 0.0 0.2 455120 20620 ? SML 11:06 0:00 /usr/lib/x86_64-linux-gnu/tumbler-1/tumblerd
root 4953 0.1 0.0 0 0 ? I 11:07 0:01 [kworker/u8:3-ev]
root 6025 0.0 0.0 0 0 ? I 11:09 0:00 [kworker/2:2-cgr]
root 6333 0.0 0.0 0 0 ? I 11:19 0:00 [kworker/u8:0-ev]
kayon-pc 10144 0.3 0.5 535060 47572 ? SL 11:27 0:00 ristretto /home/kayon-pc10/Documents/linux 12.png
root 10671 0.0 0.0 0 0 ? I 11:30 0:00 [kworker/u8:1-ev]
root 10715 0.0 0.0 47236 3704 pts/0 R+ 11:31 0:00 ps -axu
root@kayonpc10:/home/kayon-pc10# lspci
00:00.0 Host bridge: Intel Corporation 4th Gen Core Processor DRAM Controller (rev 06)
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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 Family 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)
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04:00.0 PCI bridge: ASMedia Technology Inc. ASM1083/1085 PCIe to PCI Bridge (rev 04)
root@kayonpc10:/home/kayon-pc10# free
              total        used        free      shared  buff/cache   available
Mem:           8103664       608848       6371028        31160       1123788       7192880
Swap:          947028            0         947028
root@kayonpc10:/home/kayon-pc10# cat /proc/cpuinfo
bash: cat /proc/cpuinfo: No such file or directory
root@kayonpc10:/home/kayon-pc10# finger root
Login: root                                Name: root
Directory: /root                          Shell: /bin/bash
Never logged in.
No mail.
No Plan.
root@kayonpc10:/home/kayon-pc10#
```

Fungsi perintah diatas :

Echo : untuk menampilkan baris teks

Date : untuk menampilkan tanggal

Hostname : Melihat nama dari komputer yang sedang dipakai / aktif.

Arch : menampilkan procesor

Uname -a : menampilkan informasi system kernel

Dmesg : Mencetak pesan-pesan pada waktu proses boot

More : Untuk menampilkan sesuatu layar per layar

Uptime : Melihat jumlah waktu pemakaian komputer oleh seseorang, terhitung proses reboot terakhir

Whoami : Menampilkan nama dari yang Login saja, tanpa informasi yang lain.

Who : untuk menampilkan user

Id : Melihat ID yang ada di Linux, baik ID dari User, Grup, Device yang terpasang.

Last : Melihat user sebelumnya yang telah login di komputer.

Finger : Melihat informasi user yang telah ditambahkan oleh perintah “chfn”.

W : Melihat siapa saja yang sedang Login dengan informasi yang sangat lengkap.

Top : untuk melihat proses secara urut

Echo \$SHELL: untuk menampilkan shell yang sedang aktif saat itu

Man : digunakan untuk melihat manual dari command tertentu

Last : Melihat user sebelumnya yang telah login di komputer

Clear : untuk membersihkan terminal

Fdisk -l : untuk menampilkan partisi

Users : menampilkan nama pengguna

Cat : biasanya digunakan untuk melihat(tanpa edit) content dari sebuah file text

cat /proc/cpuinfo : Cpu info. Melihat file pada /proc directori yang bukan merupakan file nyata (not real files).

Cal : untuk menampilkan kalender

Bc -l : menampilkan versi bc

Yes : Cetak string sampai di interrupt

Pwd : untuk melihat direktori aktif

History : untuk melihat riwayat

Tail : mendefinisikan sebuah data pada file menurut barisnya

Lsmmod : Untuk menampilkan module /driver yang diloat ke kernel

Ps -axu : Melihat seluruh proses yang dijalankan, walaupun tanpa terminal control, juga ditampilkan nama dari user untuk setiap proses.

Lspci : Menampilkan hardware yang terkoneksi ke komputer dengan basis PCI buss

Free : Melihat informasi penggunaan memory (RAM dan swap)

Reboot : untuk mulai ulang

Halt : Perintah yang hanya biasa dijalankan oleh super user atau anda harus login sebagai Root.perintah ini untuk memberikan kernel supaya mematikan system / shutdown

## TUGAS

### 1. Jelaskan Distro Linux yang ada saat ini (minimal 5).

#### a. Ubuntu

Ubuntu adalah salah satu distribusi Linux yang berbasis pada Debian. Proyek Ubuntu disponsori oleh Canonical Ltd (perusahaan milik Mark Shuttleworth). Nama Ubuntu diambil dari nama sebuah konsep ideologi di Afrika Selatan. “Ubuntu” berasal dari bahasa kuno Afrika, yang berarti “rasa perikemanusiaan terhadap sesama manusia”.

#### b. CentOS

CentOS adalah sistem operasi bebas yang didasarkan pada Red Hat Enterprise Linux (RHEL). CentOS singkatan dari Community ENTERprise Operating System (Sistem Operasi Perusahaan buatan Komunitas/Masyarakat).

#### c. Debian

Debian adalah sistem operasi berbasis kernel Linux. Debian adalah ‘kernel independen’, yaitu sistem operasi Debian dikembangkan murni tanpa berdasarkan pada sistem operasi yang telah ada.

#### d. Slackware merupakan sistem operasi yang dibuat oleh Patrick Volkerding dari SlackwareLinux, Inc. Slackware merupakan salah satu distro awal, dan merupakan yang tertua yang masih dikelola. Tujuan utama Slackware adalah stabilitas dan kemudahan desain, serta menjadi distribusi Linux yang paling mirip Unix.

#### e. Linux Mint

Linux Mint adalah sistem operasi berbasis Linux untuk PC. Inti dari Linux Mint adalah Ubuntu, sehingga aplikasi yang dapat berjalan di Ubuntu, juga bisa berjalan pada Linux Mint.

### 2. Jelaskan 20 perintah yang sama di antara masing-masing distro.

1. head - Menampilkan beberapa baris awal pada file teks.
1. nano - Mengedit isi dari suatu file teks.
1. vi – Teks editor yang sangat ampuh yang hampir selalu terdapat dalam setiap instalasi Linux
1. wc – Menghitung jumlah baris, kata atau karakter dari sebuah file teks.
1. man – menampilkan dokumentasi (manual pages) dari sebuah perintah.
1. apropos - menampilkan dokumentasi (manual pages) yang berhubungan dengan kata kunci yang telah diberikan
1. find – Memindai dan mencari pada struktur direktori dari file
1. tar – Perintah untuk bekerja dengan file arsip.
1. gzip – Melakukan kompresi pada file atau folder menjadi file dengan ekstensi .gz
1. date – Menampilkan jam dan tanggal waktu sekarang.
1. cal – Menampilkan kalender
1. touch – Mengubah waktu modifikasi dari sebuah file atau membuat sebuah file kosong (0 byte)
1. ps – Menampilkan proses yang berjalan pada sistem.
1. kill – Mematikan (atau memberikan sinyal lain pada) sebuah proses.
1. su – Super user
1. userdel – Menghapus user dari sistem.
1. passwd – Mengganti password user
1. ifconfig – Mengkonfigurasi interface jaringan.
1. halt – Mematikan sistem
1. reboot – Me-restart sistem

**3. Jelaskan maksud perintah 'init 0', 'init 1', 'init 2', 'init 3', 'init 4', 'init 5', 'init 6'.**

1. init 0 => Digunakan untuk maintenance, diagnostic hardware, booting selain dari disk misal dari cdroom.
2. init 1 => Single user mode, digunakan untuk menambahkan patches, backup/restore system. di level ini kita bisa menjalankan/access semua file tapi user lain tidak bisa login ke dalam sytem kita.
3. init 2 => multiuser mode, biasanya utk digunakan dalam network. tapi disini tidak ada re-sourches yang di share.
4. init 3 ==> memperluas multiuser mode,kita bisa membuat local resourches share pada network kita. Sehingga kita bisa berbagi data dilevel ini dalam network.
5. init 4 ==> utk alternative multiuser mode tetapi saat ini belum bisa digunakan.
6. init 5 ==> utk shutdown/ power off. 7. init 6 ==> men stop operating system kemudian re-boot dan kembali ke init default nyayang ada di /etc/init tab

**4. Jelaskan maksud dari perintah 'quota'**

Quota adalah pembatasan pemakaian hard disk untuk user dan atau group. Hal ini sangat penting karena jika tidak ada pengaturan pemakaian jatah hard disk maka dalam waktu singkat server akan penuh dengan data pribadi. Jika data user melebihi quota yang sudah ditetapkan,maka user tersebut tidak bisa lagi menyimpan data kecuali jika dia menghapus data-datanya.