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KELAS : E

## MODUL 5

```
Terminal - root@kayonpc22:/home/kayon-pc22
File Edit View Terminal Tabs Help
kayon-pc22@kayonpc22:~$ sudo su
[sudo] password for kayon-pc22:
root@kayonpc22:/home/kayon-pc22# echo halo dunia
halo dunia
root@kayonpc22:/home/kayon-pc22# date
Rab Okt  9 16:48:14 WIB 2019
root@kayonpc22:/home/kayon-pc22# hostname
kayonpc22
root@kayonpc22:/home/kayon-pc22# arch
x86_64
root@kayonpc22:/home/kayon-pc22# uname -a
Linux kayonpc22 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@kayonpc22:/home/kayon-pc22# 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
=6cd2aa32-9530-4579-818c-a56b05fb1bce 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 0x0000000000000000-0x0000000000000dfff] usable
[ 0.000000] BIOS-e820: [mem 0x0000000000000d800-0x00000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000000a000-0x0000000000000fffff] reserved
--More--
```

```
Terminal - root@kayonpc22: /home/kayon-pc22
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[ 0.000000] Hygon HygonGenuine
[ 0.000000] Centaur CentaurHauls
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
[ 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 0x0000000000000000-0x000000000000d7ff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000000d800-0x0000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000000e000-0x000000000000ffffff] reserved
root@kayonpc22:/home/kayon-pc22# uptime
16:49:15 up 13 min, 1 user, load average: 0,06, 0,19, 0,25
root@kayonpc22:/home/kayon-pc22# whoami
root
root@kayonpc22:/home/kayon-pc22# who
kayon-pc22 tty7 2019-10-09 23:36 (:0)
root@kayonpc22:/home/kayon-pc22# id
uid=0(root) gid=0(root) groups=0(root)
root@kayonpc22:/home/kayon-pc22# last
kayon-pc tty7 :0 Wed Oct 9 23:36 gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct 9 23:35 still running
kayon-pc tty7 :0 Tue Oct 8 16:15 - 17:35 (01:19)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:14 - 17:35 (01:20)

wtmp begins Tue Oct 8 15:36:01 2019
root@kayonpc22:/home/kayon-pc22# finger

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

apt install finger

root@kayonpc22:/home/kayon-pc22# w
16:49:40 up 13 min, 1 user, load average: 0,04, 0,17, 0,24
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
kayon-pc tty7 :0 23:36 ? 13.85s 0.01s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayonpc22:/home/kayon-pc22# top
top - 16:50:55 up 15 min, 1 user, load average: 0,14, 0,17, 0,24
Tasks: 190 total, 2 running, 141 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0,6 us, 0,2 sy, 0,0 ni, 99,3 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 8103664 total, 6438300 free, 502512 used, 1162844 buff/cache
KiB Swap: 947028 total, 947028 free, 0 used, 7326996 avail Mem
```

```
Terminal - root@kayonpc22: /home/kayon-pc22
File Edit View Terminal Tabs Help

root@kayonpc22:/home/kayon-pc22# uptime
16:49:15 up 13 min, 1 user, load average: 0,06, 0,19, 0,25
root@kayonpc22:/home/kayon-pc22# whoami
root
root@kayonpc22:/home/kayon-pc22# who
kayon-pc22 tty7 2019-10-09 23:36 (:0)
root@kayonpc22:/home/kayon-pc22# id
uid=0(root) gid=0(root) groups=0(root)
root@kayonpc22:/home/kayon-pc22# last
kayon-pc tty7 :0 Wed Oct 9 23:36 gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct 9 23:35 still running
kayon-pc tty7 :0 Tue Oct 8 16:15 - 17:35 (01:19)
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wtmp begins Tue Oct 8 15:36:01 2019
root@kayonpc22:/home/kayon-pc22# finger

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root@kayonpc22:/home/kayon-pc22# w
16:49:40 up 13 min, 1 user, load average: 0,04, 0,17, 0,24
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
kayon-pc tty7 :0 23:36 ? 13.85s 0.01s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayonpc22:/home/kayon-pc22# top
top - 16:50:00 up 14 min, 1 user, load average: 0,03, 0,16, 0,24
Tasks: 190 total, 1 running, 141 sleeping, 0 stopped, 0 zombie
%Cpu(s): 5,6 us, 0,2 sy, 0,0 ni, 94,2 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 8103664 total, 6448152 free, 493360 used, 1162152 buff/cache
KiB Swap: 947028 total, 947028 free, 0 used, 7326796 avail Mem

  PID USER      PR  NI   VIRT    RES    SHR   S  %CPU  %MEM     TIME+ COMMAND
    903 root        20   0 365736 63472 42964 S   10,3   0,8   0:15.15 Xorg
   4081 kayon-p+    20   0 583416 38916 28808 S    4,3   0,5   0:02.87 xfce4-terminal
  5921 root        20   0 51672   4072   3380 R    0,7   0,1   0:00.07 top
  1705 kayon-p+  20   0 191388 22116 17956 S    0,3   0,3   0:01.04 xfbm4
    1 root        20   0 225236 9132   6824 S    0,0   0,1   0:01.19 systemd
    2 root        20   0      0      0      0 S    0,0   0,0   0:00.00 kthreadd
    3 root        0 -20      0      0      0 I    0,0   0,0   0:00.00 rcu_gp
    4 root        0 -20      0      0      0 I    0,0   0,0   0:00.00 rcu_par_gp
    5 root        20   0      0      0      0 I    0,0   0,0   0:00.00 kworker/0:0-cgr
    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
```

```
Terminal - root@kayonpc22: /home/kayon-pc22

Tasks: 192 total, 1 running, 141 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1,3 us, 0,3 sy, 0,0 ni, 98,3 id, 0,1 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 8103664 total, 6436140 free, 505392 used, 1162132 buff/cache
KiB Swap: 947028 total, 947028 free, 0 used, 7314960 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
4081 kayon-p+ 20 0 583416 38916 28808 S 3,7 0,5 0:05.52 xfce4-terminal
903 root 20 0 357812 63584 42824 S 3,3 0,8 0:19.01 Xorg
5643 kayon-p+ 20 0 1176044 178700 110724 S 2,0 2,2 0:13.66 soffice.bin
1705 kayon-p+ 20 0 191388 22116 17956 S 0,7 0,3 0:01.40 xfwm4
1709 kayon-p+ 20 0 410192 29384 22888 S 0,3 0,4 0:01.43 xfce4-panel
1836 kayon-p+ 20 0 220772 6920 6216 S 0,3 0,1 0:00.08 at-spi2-registr
5921 root 20 0 51672 4072 3380 R 0,3 0,1 0:00.30 top
1 root 20 0 225236 9132 6824 S 0,0 0,1 0:01.19 systemd
2 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kthreadd
3 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 rcu_gp
4 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 rcu_par_gp
5 root 20 0 0 0 0 I 0,0 0,0 0:00.00 kworker/0:0-cgr
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 0:00.34 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 cphp/0
15 root 20 0 0 0 0 S 0,0 0,0 0:00.00 cphp/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 0:00.01 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 cphp/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 0:00.01 ksoftirqd/2
25 root 20 0 0 0 0 I 0,0 0,0 0:00.05 kworker/2:0-mm
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 cphp/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
root@kayonpc22: /home/kayon-pc22#
```

```
Terminal - root@kayonpc22: /home/kayon-pc22

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@kayonpc22: /home/kayon-pc22
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@kayonpc22: /home/kayon-pc22
File Edit View Terminal Tabs Help
root@kayonpc22:/home/kayon-pc22# sudo su
root@kayonpc22:/home/kayon-pc22# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayonpc22:/home/kayon-pc22# last
kayon-pc tty7      :0      Wed Oct 9 23:36   gone - no logout
reboot  system boot 5.0.0-31-generic Wed Oct 9 23:35   still running
kayon-pc tty7      :0      Tue Oct 8 16:15 - 17:35 (01:19)
reboot  system boot 5.0.0-31-generic Tue Oct 8 16:14 - 17:35 (01:20)

wtmp begins Tue Oct 8 15:36:01 2019
root@kayonpc22:/home/kayon-pc22# clear
```

```
Terminal - root@kayonpc22: /home/kayon-pc22
File Edit View Terminal Tabs Help
root@kayonpc22:/home/kayon-pc22# 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 409602047 409395200 195,26 7 HPFS/NTFS/exFAT
/dev/sda3 409602048 935813119 526211072 250,96 7 HPFS/NTFS/exFAT
/dev/sda4 935813120 976771071 40957952 19,56 83 Linux

root@kayonpc22:/home/kayon-pc22# users
kayon-pc22
root@kayonpc22:/home/kayon-pc22# 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=6cd2aa32-9538-4579-818c-a56b05fblbce / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayonpc22:/home/kayon-pc22# 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                1 2 3 4 5        1 2 3 4
2 3 4 5 6 7 8 6 7 8 9 10 11 12 5 6 7 8 9 10 11
9 10 11 12 13 14 15 13 14 15 16 17 18 19 12 13 14 15 16 17 18
16 17 18 19 20 21 22 20 21 22 23 24 25 26 19 20 21 22 23 24 25
23 24 25 26 27 28 29 27 28 29 26 27 28 29 30 31
30 31

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

root@kayonpc22:/home/kayon-pc22#
```

```
Terminal - root@kayonpc22: /home/kayon-pc22
File Edit View Terminal Tabs Help
      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@kayonpc22:/home/kayon-pc22# 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@kayonpc22:/home/kayon-pc22# 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@kayonpc22:/home/kayon-pc22#
```

```
Terminal - root@kayonpc22: /home/kayon-pc22

File Edit View Terminal Tabs Help

16 17 18 19 20 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@kayonpc22:/home/kayon-pc22# 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@kayonpc22:/home/kayon-pc22# 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@kayonpc22:/home/kayon-pc22# 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'.
echo 5+4 | bc -l
```

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Terminal - root@kayonpc22: /home/kayon-pc22

File Edit View Terminal Tabs Help

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@kayonpc22:/home/kayon-pc22# 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@kayonpc22:/home/kayon-pc22# 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@kayonpc22:/home/kayon-pc22# 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'.
echo 5+4 | bc -l
(standard_in) 1: syntax error
(standard_in) 1: illegal character: |
(standard_in) 1: syntax error
quit
root@kayonpc22:/home/kayon-pc22# echo 5+4 | bc -l
9
root@kayonpc22:/home/kayon-pc22# yes please
```



```
Terminal - root@kayonpc22: /home/kayon-pc22
File Edit View Terminal Tabs Help
764 id
765 last
766 finger
767 w
768 top
769 echo $SHELL
770 echo {con,pre} {sent,fer} {s,ed}
771 yes please
772 ls
773 ls
774 ls -l
775 ls /home
776 whatis ls
777 mkdir informatika
778 rmdir informatika
779 which mkdir
780 whereis mkdir
781 free
782 ls
783 ls l
784 ls -l
785 ls /home
786 whatis ls
787 mkdir informatika
788 rmdir informatika
789 which mkdir
790 whereis mkdir
791 tree
792 free
793 pstree
794 who can tell me about linux
795 last
796 clear
797 fdisk -l
798 users
799 cat /etc/fstab
800 cal 2000
801 cal 9 1752
802 cal 10 2007
803 bc -l
804 echo 5+4 | bc -l
805 yes please
806 pwd
807 history
root@kayonpc22:/home/kayon-pc22#
```

```
Terminal - root@kayonpc22: /home/kayon-pc22
File Edit View Terminal Tabs Help
807 history
root@kayonpc22:/home/kayon-pc22# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayonpc22:/home/kayon-pc22# lsmod
Module                  Size  Used by
ufs                      81920  0
qnx4                    16384  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
snd_hda_codec_hdmi      53248  1
kvm                     630784  1 kvm_intel
snd_hda_codec_realtek   114688  1
irqbypass              16384  1 kvm
eeepc_wmi               16384  0
snd_hda_codec_generic   77824  1 snd_hda_codec_realtek
asus_wmi                28672  1 eeepc_wmi
sparse_keymap           16384  1 asus_wmi
ledtrig_audio           16384  2 snd_hda_codec_generic,snd_hda_codec_realtek
crc10dif_pclmul         16384  1
joydev                  28672  0
input_leds              16384  0
crc32_pclmul            16384  0
ghash_clmulni_intel     16384  0
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
aesni_intel             372736  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
aes_x86_64              20480  1 aesni_intel
snd_seq_midi             20480  0
snd_seq_midi_event       16384  1 snd_seq_midi
snd_rawmidi             36864  1 snd_seq_midi
snd_seq                 69632  2 snd_seq_midi,snd_seq_midi_event
crypto_simd             16384  1 aesni_intel
```



```
Terminal - root@kayonpc22: /home/kayon-pc22

soundcore      16384 1 snd
intel_cstate    20480 0
intel_rapl_perf 16384 0
mei_me          40960 0
mei            106496 1 mei_me
nvidia_uvm      819200 0
mac_hid        16384 0
lpc_ich         24576 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
ipmi_devintf   20480 0
ipmi_msghandler 102400 2 ipmi_devintf,nvidia
ahci           40960 1
r8169          86016 0
libahci        32768 1 ahci
realtek        20480 0
wmi            28672 2 asus_wmi,wmi_bmof
video          49152 1 asus_wmi
root@kayonpc22:/home/kayon-pc22#
```

```
Terminal - root@kayonpc22: /home/kayon-pc22

wmi            28672 2 asus_wmi,wmi_bmof
video          49152 1 asus_wmi
root@kayonpc22:/home/kayon-pc22# ps -axu
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.1 225236 9132 ?        Ss   16:35   0:01 /sbin/init splash
root         2  0.0  0.0      0   0 ?        S    16:35   0:00 [kthreadd]
root         3  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [rcu_gp]
root         4  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [rcu_par_gp]
root         5  0.0  0.0      0   0 ?        I    16:35   0:00 [kworker/0:0-cgr]
root         6  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [kworker/0:0H-kb]
root         8  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [mm_percpu_wq]
root         9  0.0  0.0      0   0 ?        S    16:35   0:00 [ksoftirqd/0]
root        10  0.0  0.0      0   0 ?        I    16:35   0:00 [rcu_sched]
root        11  0.0  0.0      0   0 ?        S    16:35   0:00 [migration/0]
root        12  0.0  0.0      0   0 ?        S    16:35   0:00 [idle_inject/0]
root        14  0.0  0.0      0   0 ?        S    16:35   0:00 [cpuhp/0]
root        15  0.0  0.0      0   0 ?        S    16:35   0:00 [cpuhp/1]
root        16  0.0  0.0      0   0 ?        S    16:35   0:00 [idle_inject/1]
root        17  0.0  0.0      0   0 ?        S    16:35   0:00 [migration/1]
root        18  0.0  0.0      0   0 ?        S    16:35   0:00 [ksoftirqd/1]
root        20  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [kworker/1:0H-kb]
root        21  0.0  0.0      0   0 ?        S    16:35   0:00 [cpuhp/2]
root        22  0.0  0.0      0   0 ?        S    16:35   0:00 [idle_inject/2]
root        23  0.0  0.0      0   0 ?        S    16:35   0:00 [migration/2]
root        24  0.0  0.0      0   0 ?        S    16:35   0:00 [ksoftirqd/2]
root        25  0.0  0.0      0   0 ?        I    16:35   0:00 [kworker/2:0-mm_]
root        26  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [kworker/2:0H-kb]
root        27  0.0  0.0      0   0 ?        S    16:35   0:00 [cpuhp/3]
root        28  0.0  0.0      0   0 ?        S    16:35   0:00 [idle_inject/3]
root        29  0.0  0.0      0   0 ?        S    16:35   0:00 [migration/3]
root        30  0.0  0.0      0   0 ?        S    16:35   0:00 [ksoftirqd/3]
root        32  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [kworker/3:0H-kb]
root        33  0.0  0.0      0   0 ?        S    16:35   0:00 [kdevtmpfs]
root        34  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [netns]
root        35  0.0  0.0      0   0 ?        S    16:35   0:00 [rcu_tasks_kthre]
root        36  0.0  0.0      0   0 ?        S    16:35   0:00 [kauditd]
root        37  0.0  0.0      0   0 ?        S    16:35   0:00 [khungtaskd]
root        38  0.0  0.0      0   0 ?        S    16:35   0:00 [oom_reaper]
root        39  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [writeback]
root        40  0.0  0.0      0   0 ?        S    16:35   0:00 [kcompactd0]
root        41  0.0  0.0      0   0 ?        SN   16:35   0:00 [ksmd]
root        42  0.0  0.0      0   0 ?        SN   16:35   0:00 [khugepaged]
root        43  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [crypto]
root        44  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [kintegrityd]
root        45  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [kblockd]
root        46  0.0  0.0      0   0 ?        Ic-  16:35   0:00 [tpm_dev_wq]
```

```
Terminal - root@kayonpc22: /home/kayon-pc22

kayon-p+ 1876 0.0 0.3 480248 29652 ? S1 16:36 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-p+ 1877 0.0 0.4 555880 33564 ? S1 16:36 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-p+ 1879 0.0 0.3 406248 32032 ? S1 16:36 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 104857
kayon-p+ 1882 0.0 0.4 708048 34012 ? S1 16:36 0:01 /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-p+ 1919 0.0 0.1 574768 11548 ? S1 16:36 0:00 /usr/bin/pulseaudio --start --log-target=syslog
rtkit 1926 0.0 0.0 183580 2972 ? Sns1 16:36 0:00 /usr/lib/rtkit/rtkit-daemon
kayon-p+ 1941 0.0 0.0 447304 7484 ? Ssl 16:36 0:00 /usr/lib/x86_64-linux-gnu/indicator-messages/indicator-messages-service
kayon-p+ 1949 0.0 0.1 308776 8336 ? Ssl 16:36 0:00 /usr/lib/gvfs/gvfs-udisks2-volume-monitor
kayon-p+ 1953 0.0 0.0 379280 7612 ? Ssl 16:36 0:00 /usr/lib/gvfs/gvfs-afc-volume-monitor
kayon-p+ 1958 0.0 0.0 289264 6720 ? Ssl 16:36 0:00 /usr/lib/gvfs/gvfs-gphoto2-volume-monitor
kayon-p+ 1962 0.0 0.0 274588 6660 ? Ssl 16:36 0:00 /usr/lib/gvfs/gvfs-goa-volume-monitor
kayon-p+ 1966 0.0 0.0 276340 4900 ? Ssl 16:36 0:00 /usr/lib/gvfs/gvfs-mtp-volume-monitor
kayon-p+ 1973 0.0 0.0 368444 6960 ? S1 16:36 0:00 /usr/lib/gvfs/gvfsd-trash --spawner :1.16 /org/gtk/gvfs/exec_spaw/0
kayon-p+ 3325 0.0 0.0 82724 6852 ? Ss 16:36 0:00 /usr/lib/bluetooth/obexd
root 3352 0.0 0.1 374160 13844 ? Ssl 16:36 0:00 /usr/lib/packagekit/packagekitd
kayon-p+ 4081 1.8 0.5 591612 44534 ? RL 16:37 0:35 /usr/bin/xfce4-terminal
kayon-p+ 4111 0.0 0.0 38032 4772 pts/1 Ss 16:37 0:00 bash
root 4239 0.0 0.0 0 0 ? I- 16:37 0:00 [xfce4]
root 4240 0.0 0.0 0 0 ? I- 16:37 0:00 [xfs_mru_cache]
root 4245 0.0 0.0 0 0 ? S 16:37 0:00 [jfsIO]
root 4246 0.0 0.0 0 0 ? S 16:37 0:00 [jfsCommit]
root 4247 0.0 0.0 0 0 ? S 16:37 0:00 [jfsCommit]
root 4248 0.0 0.0 0 0 ? S 16:37 0:00 [jfsCommit]
root 4249 0.0 0.0 0 0 ? S 16:37 0:00 [jfsCommit]
root 4250 0.0 0.0 0 0 ? S 16:37 0:00 [jfsSync]
root 4959 0.0 0.0 73424 4420 pts/1 S 16:37 0:00 sudo su
root 5320 0.0 0.0 72712 3868 pts/1 S 16:37 0:00 su
root 5323 0.0 0.0 38084 4900 pts/1 S 16:37 0:00 bash
root 5556 0.0 0.0 108148 8084 ? Ss 16:41 0:00 /usr/sbin/cupsd -l
root 5557 0.0 0.1 303520 10908 ? Ssl 16:41 0:00 /usr/sbin/cups-browsed
root 5611 0.0 0.0 0 0 ? I 16:41 0:00 [kworker/1:0-cgr]
kayon-p+ 5615 0.0 0.4 817368 32760 ? S1 16:42 0:00 xfce4-screenshooter
root 5624 0.2 0.0 0 0 ? I 16:43 0:03 [kworker/u8:0-ev]
kayon-p+ 5626 0.0 0.0 144816 6264 ? S1 16:44 0:00 /usr/lib/libreoffice/program/soffice --writer
kayon-p+ 5643 1.5 2.9 1244600 240888 ? S1 16:44 0:22 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
kayon-p+ 5662 0.0 0.3 388524 31072 ? S1 16:45 0:00 xfce4-screenshooter -f
root 5959 0.0 0.0 0 0 ? I 16:51 0:00 [kworker/3:2-cgr]
root 5960 0.2 0.0 0 0 ? I 16:51 0:03 [kworker/u8:1-ev]
root 6205 0.0 0.0 73180 4236 pts/1 S 16:56 0:00 sudo su
root 6206 0.0 0.0 72712 4016 pts/1 S 16:56 0:00 su
root 6207 0.0 0.0 38084 5140 pts/1 S 16:56 0:00 bash
root 6313 1.0 0.0 0 0 ? I 17:02 0:03 [kworker/u8:2-ev]
root 6334 0.3 0.0 0 0 ? I 17:04 0:01 [kworker/u8:3-ev]
root 6450 0.0 0.0 47236 3700 pts/1 R+ 17:08 0:00 ps -axu
root@kayonpc22:/home/kayon-pc22#
```

```
Terminal - root@kayonpc22: /home/kayon-pc22

root 4240 0.0 0.0 0 0 ? I- 16:37 0:00 [xfs_mru_cache]
root 4245 0.0 0.0 0 0 ? S 16:37 0:00 [jfsIO]
root 4246 0.0 0.0 0 0 ? S 16:37 0:00 [jfsCommit]
root 4247 0.0 0.0 0 0 ? S 16:37 0:00 [jfsCommit]
root 4248 0.0 0.0 0 0 ? S 16:37 0:00 [jfsCommit]
root 4249 0.0 0.0 0 0 ? S 16:37 0:00 [jfsCommit]
root 4250 0.0 0.0 0 0 ? S 16:37 0:00 [jfsSync]
root 4959 0.0 0.0 73424 4420 pts/1 S 16:37 0:00 sudo su
root 5320 0.0 0.0 72712 3868 pts/1 S 16:37 0:00 su
root 5323 0.0 0.0 38084 4900 pts/1 S 16:37 0:00 bash
root 5556 0.0 0.0 108148 8084 ? Ss 16:41 0:00 /usr/sbin/cupsd -l
root 5557 0.0 0.1 303520 10908 ? Ssl 16:41 0:00 /usr/sbin/cups-browsed
root 5611 0.0 0.0 0 0 ? I 16:41 0:00 [kworker/1:0-cgr]
kayon-p+ 5615 0.0 0.4 817368 32760 ? S1 16:42 0:00 xfce4-screenshooter
root 5624 0.2 0.0 0 0 ? I 16:43 0:03 [kworker/u8:0-ev]
kayon-p+ 5626 0.0 0.0 144816 6264 ? S1 16:44 0:00 /usr/lib/libreoffice/program/soffice --writer
kayon-p+ 5643 1.5 2.9 1244600 240888 ? S1 16:44 0:22 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
kayon-p+ 5662 0.0 0.3 388524 31072 ? S1 16:45 0:00 xfce4-screenshooter -f
root 5959 0.0 0.0 0 0 ? I 16:51 0:00 [kworker/3:2-cgr]
root 5960 0.2 0.0 0 0 ? I 16:51 0:03 [kworker/u8:1-ev]
root 6205 0.0 0.0 73180 4236 pts/1 S 16:56 0:00 sudo su
root 6206 0.0 0.0 72712 4016 pts/1 S 16:56 0:00 su
root 6207 0.0 0.0 38084 5140 pts/1 S 16:56 0:00 bash
root 6313 1.0 0.0 0 0 ? I 17:02 0:03 [kworker/u8:2-ev]
root 6334 0.3 0.0 0 0 ? I 17:04 0:01 [kworker/u8:3-ev]
root 6450 0.0 0.0 47236 3700 pts/1 R+ 17:08 0:00 ps -axu
root@kayonpc22:/home/kayon-pc22# 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 8 Series/C220 Series Chipset Family PCI Express Root Port #3 (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@kayonpc22:/home/kayon-pc22#
```

```
Terminal - root@kayonpc22: /home/kayon-pc22
File Edit View Terminal Tabs Help
04:00:00 Ethernet Controller: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 11)
04:00:00 PCI bridge: ASMedia Technology Inc. ASM1083/1085 PCIe to PCI Bridge (rev 04)
root@kayonpc22:/home/kayon-pc22# free
              total        used        free      shared  buff/cache   available
Mem:           8103664      598644      6349420       18688      1172600      7228232
Swap:           947028           0       947028

root@kayonpc22:/home/kayon-pc22# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 60
model name     : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
stepping       : 3
microcode      : 0x27
cpu MHz        : 798.213
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 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       : 6584.55
clflush size   : 64
cache alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

processor       : 1
vendor_id      : GenuineIntel
cpu family     : 6
model          : 60
model name     : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
stepping       : 3
microcode      : 0x27
cpu MHz        : 798.167
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 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       : 6584.55
clflush size   : 64
cache alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

root@kayonpc22:/home/kayon-pc22#
```

```
Terminal - root@kayonpc22: /home/kayon-pc22
File Edit View Terminal Tabs Help
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       : 6584.55
clflush size   : 64
cache alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

processor       : 3
vendor_id      : GenuineIntel
cpu family     : 6
model          : 60
model name     : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz
stepping       : 3
microcode      : 0x27
cpu MHz        : 798.234
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 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       : 6584.55
clflush size   : 64
cache alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

root@kayonpc22:/home/kayon-pc22# finger root
Command 'finger' not found, but can be installed with:

apt install finger

root@kayonpc22:/home/kayon-pc22#
```

```
Terminal - root@kayonpc22: /home/kayon-pc22

File Edit View Terminal Tabs Help

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 sse3 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 bml1 avx2 smep bmi2 erms
invpcid xsaveopt dtherm idma arat pln pts md_clear flush_l1d
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips : 6584.55
clflush size : 64
cache alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

root@kayonpc22:/home/kayon-pc22# finger root
Command 'finger' not found, but can be installed with:

apt install finger

root@kayonpc22:/home/kayon-pc22# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
root@kayonpc22:/home/kayon-pc22# ls -l
total 32
drwxr-xr-x 2 kayon-pc22 kayon-pc22 4096 Sep 4 11:10 Desktop
drwxr-xr-x 2 kayon-pc22 kayon-pc22 4096 Sep 4 11:10 Documents
drwxr-xr-x 2 kayon-pc22 kayon-pc22 4096 Sep 4 11:10 Downloads
drwxr-xr-x 2 kayon-pc22 kayon-pc22 4096 Okt 8 17:38 Music
drwxr-xr-x 2 kayon-pc22 kayon-pc22 4096 Okt 8 17:29 Pictures
drwxr-xr-x 2 kayon-pc22 kayon-pc22 4096 Sep 4 11:10 Public
drwxr-xr-x 2 kayon-pc22 kayon-pc22 4096 Sep 4 11:10 Templates
drwxr-xr-x 2 kayon-pc22 kayon-pc22 4096 Sep 4 11:10 Videos
root@kayonpc22:/home/kayon-pc22# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc22:/home/kayon-pc22# whatis ls
ls (1) - list directory contents
root@kayonpc22:/home/kayon-pc22# whatis mkdir
mkdir (1) - make directories
mkdir (2) - create a directory
root@kayonpc22:/home/kayon-pc22# mkdir informatika
root@kayonpc22:/home/kayon-pc22# rmdir informatika
root@kayonpc22:/home/kayon-pc22# touch rpl.txt
root@kayonpc22:/home/kayon-pc22# rm rpl.txt
root@kayonpc22:/home/kayon-pc22# which mkdir
/bin/mkdir
root@kayonpc22:/home/kayon-pc22#
```

```
Terminal - root@kayonpc22: /home/kayon-pc22

File Edit View Terminal Tabs Help

root@kayonpc22:/home/kayon-pc22# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayonpc22:/home/kayon-pc22# df
Filesystem 1K-blocks Used Available Use% Mounted on
udev 4093348 0 4093348 0% /dev
tmpfs 810368 1344 809024 1% /run
/dev/sda4 20026192 8714764 10271096 46% /
tmpfs 4051832 0 4051832 0% /dev/shm
tmpfs 5120 4 5116 1% /run/lock
tmpfs 4051832 0 4051832 0% /sys/fs/cgroup
tmpfs 810364 16 810348 1% /run/user/1000
root@kayonpc22:/home/kayon-pc22# du
4 ./Videos
4 ./Public
4 ./Templates
44 ./gnome2/gtksourceview-1.0/language-specs
48 ./gnome2/gtksourceview-1.0
52 ./gnome2
352 ./Pictures
596 ./thumbnails/normal
600 ./thumbnails
0 ./config/update-notifier
8 ./config/ristretto
20 ./config/neofetch
8 ./config/gtk-3.0
12 ./config/Mousepad
8 ./config/gtk-2.0
12 ./config/libreoffice/4/user/gallery
1016 ./config/libreoffice/4/user/database/biblio
1024 ./config/libreoffice/4/user/database
4 ./config/libreoffice/4/user/autocorr
4 ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.script.PackageRegistryBackend
4 ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.sfwk.PackageRegistryBackend
8 ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.help.PackageRegistryBackend
4 ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.component.PackageRegistryBackend
4 ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.executable.PackageRegistryBackend
4 ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.bundle.PackageRegistryBackend
8 ./config/libreoffice/4/user/extensions/bundled/registry/com.sun.star.comp.deployment.configuration.PackageRegistryBackend
40 ./config/libreoffice/4/user/extensions/bundled/registry
48 ./config/libreoffice/4/user/extensions/bundled
4 ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.script.PackageRegistryBackend
4 ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.sfwk.PackageRegistryBackend
8 ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.help.PackageRegistryBackend
4 ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.component.PackageRegistryBackend
4 ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.executable.PackageRegistryBackend
4 ./config/libreoffice/4/user/extensions/shared/registry/com.sun.star.comp.deployment.bundle.PackageRegistryBackend
```

```
Terminal - root@kayonpc22: /home/kayon-pc22

12732 ./cache/mozilla/firefox/k2dvpfe.default-release/startupCache
4 ./cache/mozilla/firefox/k2dvpfe.default-release/thumbnails
22544 ./cache/mozilla/firefox/k2dvpfe.default-release
22552 ./cache/mozilla/firefox
22556 ./cache/mozilla
24192 ./cache
4 ./mozilla/extensions
4 ./mozilla/systemextensionsdev
4 ./mozilla/firefox/lan@js51.default
4 ./mozilla/firefox/Pending Pings
4 ./mozilla/firefox/Crash Reports/events
12 ./mozilla/firefox/Crash Reports
4 ./mozilla/firefox/k2dvpfe.default-release/storage/temporary
4 ./mozilla/firefox/k2dvpfe.default-release/storage/default/moz-extension+++c4fcf88c-76d6-43c9-bb15-da8291b73621~userContextId=4294967295/ldb/3647222921wleabcEoxlt-eengsairo.files
52 ./mozilla/firefox/k2dvpfe.default-release/storage/default/moz-extension+++c4fcf88c-76d6-43c9-bb15-da8291b73621~userContextId=4294967295/ldb
64 ./mozilla/firefox/k2dvpfe.default-release/storage/default/moz-extension+++c4fcf88c-76d6-43c9-bb15-da8291b73621~userContextId=4294967295
68 ./mozilla/firefox/k2dvpfe.default-release/storage/default
4 ./mozilla/firefox/k2dvpfe.default-release/storage/permanent/chrome/ldb/2918663365piupsah.files
4 ./mozilla/firefox/k2dvpfe.default-release/storage/permanent/chrome/ldb/145118868ntouromalnodry--eprc.files
4 ./mozilla/firefox/k2dvpfe.default-release/storage/permanent/chrome/ldb/3870112724segmnoittet-es.files
4 ./mozilla/firefox/k2dvpfe.default-release/storage/permanent/chrome/ldb/3561288849sdhlie.files
4 ./mozilla/firefox/k2dvpfe.default-release/storage/permanent/chrome/ldb/1657114595Amcaterivtisty.files
736 ./mozilla/firefox/k2dvpfe.default-release/storage/permanent/chrome/ldb
748 ./mozilla/firefox/k2dvpfe.default-release/storage/permanent/chrome
752 ./mozilla/firefox/k2dvpfe.default-release/storage/permanent
928 ./mozilla/firefox/k2dvpfe.default-release/storage
4 ./mozilla/firefox/k2dvpfe.default-release/sessionstore-backups
4 ./mozilla/firefox/k2dvpfe.default-release/bookmarkbackups
4 ./mozilla/firefox/k2dvpfe.default-release/extensions
36 ./mozilla/firefox/k2dvpfe.default-release/datareporting/archived/2019-09
40 ./mozilla/firefox/k2dvpfe.default-release/datareporting/archived
52 ./mozilla/firefox/k2dvpfe.default-release/datareporting/archived
4 ./mozilla/firefox/k2dvpfe.default-release/gmp
4 ./mozilla/firefox/k2dvpfe.default-release/crashes/events
12 ./mozilla/firefox/k2dvpfe.default-release/crashes
4 ./mozilla/firefox/k2dvpfe.default-release/minidumps
92 ./mozilla/firefox/k2dvpfe.default-release/saved-telemetry-pings
12712 ./mozilla/firefox/k2dvpfe.default-release
12748 ./mozilla/firefox
12760 ./mozilla
4 ./Downloads
4 ./gnupg/private-keys-v.1.d
8 ./gnupg
43608 root@kayonpc22:/home/kayon-pc22# free
```

```
Terminal - root@kayonpc22: /home/kayon-pc22

43608 root@kayonpc22:/home/kayon-pc22# free
              total        used        free      shared  buff/cache   available
Mem:      8103664      632220      6285508      11616     1185936     7185400
Swap:      947028           0       947028

root@kayonpc22:/home/kayon-pc22# pstree
systemd─ModemManager─2*[{ModemManager}]
      └─NetworkManager─dhclient
            └─2*[{NetworkManager}]
      └─Thunar
      └─accounts-daemon─2*[{accounts-daemon}]
      └─acpid
      └─avahi-daemon─avahi-daemon
      └─cron
      └─cups-browsed─2*[{cups-browsed}]
      └─cupsd
      └─dbus-daemon
      └─gnome-keyring-d─3*[{gnome-keyring-d}]
      └─irqbalance─{irqbalance}
      └─2*[{kerneloops}]
      └─lightdm─Xorg─{Xorg}
            └─lightdm─sh─ssh-agent
                  └─xfce4-session─applet.py─{applet.py}
                        └─blueman-applet─3*[{blueman-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-dispat─{networkd-dispat}
      └─nvidia-persiste
      └─packagekitd─2*[{packagekitd}]
      └─polkitd─2*[{polkitd}]
      └─pulseaudio─{pulseaudio}
      └─rsyslogd─3*[{rsyslogd}]
      └─rtkit-daemon─2*[{rtkit-daemon}]
      └─sshd
      └─systemd─{sd-pam}
            └─at-spi-bus-laun─dbus-daemon
                  └─3*[{at-spi-bus-laun}]
            └─at-spi2-registr─2*[{at-spi2-registr}]
            └─dbus-daemon
            └─dconf-service─2*[{dconf-service}]
```

```

Terminal - root@kayonpc22: /home/kayon-pc22
File Edit View Terminal Tabs Help
- at-spi2-registr-2*[{at-spi2-registr}]
- dbus-daemon
- dconf-service-2*[{dconf-service}]
- gvfs-afc-volume-3*[{gvfs-afc-volume}]
- gvfs-goa-volume-2*[{gvfs-goa-volume}]
- gvfs-gphoto2-vo-2*[{gvfs-gphoto2-vo}]
- gvfs-mtp-volume-2*[{gvfs-mtp-volume}]
- gvfs-udisks2-vo-2*[{gvfs-udisks2-vo}]
- gvfsd-gvfsd-trash-2*[{gvfsd-trash}]
  -2*[{gvfsd}]
- gvfsd-fuse-5*[{gvfsd-fuse}]
- indicator-messa-3*[{indicator-messa}]
- obexd
- xfce4-notifyd-2*[{xfce4-notifyd}]
- xfconfd
- systemd-journal
- systemd-logind
- systemd-resolve
- systemd-timesyn-{systemd-timesyn}
- systemd-udev
- thermald-{thermald}
- udisksd-4*[{udisksd}]
- unattended-upgr-{unattended-upgr}
- upowerd-2*[{upowerd}]
- whoopsie-2*[{whoopsie}]
- wpa_supplicant
- xfce4-panel-
  -panel-1-whisker-
    -oosplash-
      -soffice.bin-4*[{soffice.bin}]
      -2*[{oosplash}]
    -2*[{panel-1-whisker}]
  -panel-4-systray
  -panel-5-notific-2*[{panel-5-notific}]
  -panel-6-indicat-2*[{panel-6-indicat}]
  -panel-7-statusn-2*[{panel-7-statusn}]
  -panel-8-power-m-2*[{panel-8-power-m}]
  -panel-9-pulseau-2*[{panel-9-pulseau}]
  -xfce4-screensho-2*[{xfce4-screensho}]
  -2*[{xfce4-panel}]
- xfce4-power-man-2*[{xfce4-power-man}]
- xfce4-terminal-bash-sudo-su-bash-sudo-su-bash-pstree
  -2*[{xfce4-terminal}]
- xfdesktop-2*[{xfdesktop}]
- xfsettingsd-3*[{xfce4-screensho-2*[{xfce4-screensho}]]
  -2*[{xfsettingsd}]
- xfw4
root@kayonpc22: /home/kayon-pc22#

```

## TABEL KETERANGAN

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

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

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