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## KEGIATAN MODUL 5

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
kayon-pc8@kayonpc8:~$ sudo su
[sudo] password for kayon-pc8:
Sorry, try again.
[sudo] password for kayon-pc8:
root@kayonpc8:/home/kayon-pc8# echo halo dunia
halo dunia
root@kayonpc8:/home/kayon-pc8# date
Rab Okt  9 16:39:36 WIB 2019
root@kayonpc8:/home/kayon-pc8# hostname
kayonpc8
root@kayonpc8:/home/kayon-pc8# arch
x86_64
root@kayonpc8:/home/kayon-pc8# uname -a
Linux kayonpc8 4.18.0-22-generic #23~18.04.1-Ubuntu SMP Thu Jun 6 08:37:25 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
root@kayonpc8:/home/kayon-pc8# dmesg | more
[ 0.000000] microcode: microcode updated early to revision 0x27, date = 2019-02-26
[ 0.000000] Linux version 4.18.0-22-generic (build@lgw01-amd64-033) (gcc version 7.3.0 (Ubuntu 7.3.0-16ubuntu3)) #23~18.04.1-Ubuntu SMP Thu Jun 6 08:37:25 UTC 2019 (Ubuntu 4.18.0-22.23~18.04.1-generic 4.18.20)
[ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-4.18.0-22-generic root=UUID=41d0f721-53c3-4ae9-9d36-0727bc4e87e6 ro quiet splash vt.handoff=1
[ 0.000000] KERNEL supported cpus:
[ 0.000000] Intel GenuineIntel
[ 0.000000] AMD AuthenticAMD
[ 0.000000] Centaur CentaurHauls
[ 0.000000] x86/fpu: Supporting XSAVE feature 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:
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
[ 0.000000] BIOS-e820: [mem 0x000000000000e000-0x000000000000ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000010000-0x000000000000cb0f] usable
[ 0.000000] BIOS-e820: [mem 0x000000000000cb0f-0x000000000000cb0f] ACPI NVS
[ 0.000000] BIOS-e820: [mem 0x000000000000cb0f-0x000000000000cb54] usable
[ 0.000000] BIOS-e820: [mem 0x000000000000cb54-0x000000000000cb98] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000000cb98-0x000000000000dd7c] usable
[ 0.000000] BIOS-e820: [mem 0x000000000000dd7c-0x000000000000dd9d] reserved
root@kayonpc8:/home/kayon-pc8# uptime
16:49:05 up 16 min, 1 user, load average: 1.00, 0.99, 0.72
root@kayonpc8:/home/kayon-pc8# whoami
root
root@kayonpc8:/home/kayon-pc8# who
kayon-pc8 tty7          2019-10-09 23:33 (:0)
root@kayonpc8:/home/kayon-pc8# id
uid=0(root) gid=0(root) groups=0(root)
root@kayonpc8:/home/kayon-pc8# last
kayon-pc  tty7          :0                Wed Oct  9 23:33    gone - no logout
reboot   system boot      4.18.0-22-generi Wed Oct  9 23:32    still running
kayon-pc  tty7          :0                Tue Oct  8 16:44 - 17:35 (00:51)
reboot   system boot      4.18.0-22-generi Tue Oct  8 16:43 - 17:35 (00:51)
kayon-pc  tty7          :0                Tue Oct  8 16:42 - 16:42 (00:00)
reboot   system boot      4.18.0-22-generi Tue Oct  8 16:41 - 16:42 (00:00)

wtmp begins Tue Oct  8 16:39:10 2019
root@kayonpc8:/home/kayon-pc8# finger
Login Name      Tty      Idle   Login Time   Office      Office Phone
kayon-pc8 kayon-pc8 tty7          Oct  9 23:33 (:0)
root@kayonpc8:/home/kayon-pc8# w
16:50:28 up 17 min, 1 user, load average: 1.05, 1.01, 0.76
USER      TTY      FROM      LOGIN@   IDLE   JCPU   PCPU WHAT
kayon-pc  tty7     :0                23:33    ?      1.58s  0.01s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc
root@kayonpc8:/home/kayon-pc8#
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
16:50:28 up 17 min, 1 user, load average: 1,05, 1,01, 0,76
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
kayon-pc  tty7      :0            23:33    ?      1.58s  0.01s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc
root@kayonpc8:/home/kayon-pc8# top

top - 16:55:45 up 22 min, 1 user, load average: 1,08, 1,04, 0,86
Tasks: 184 total, 2 running, 135 sleeping, 0 stopped, 0 zombie
%Cpu(s):  0,1 us, 1,7 sy, 23,2 ni, 74,9 id,  0,0 wa,  0,0 hi,  0,1 si,  0,0 st
KiB Mem : 8186424 total, 6418436 free, 511276 used, 1176712 buff/cache
KiB Swap: 902700 total, 902700 free,  0 used. 7316088 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR S %CPU  %MEM    TIME+  COMMAND
 1499 root        39   19 227972 116548 71092 R 100,0  1,4   22:22.02  unattended-upgr
 2863 root        20    0 51652  4096  3440 R  0,3  0,1    0:00.01  top
    1 root        20    0 225344  9292  6832 S  0,0  0,1    0:01.48  systemd
    2 root        20    0      0     0     0 S  0,0  0,0    0:00.00  kthreadd
    3 root       -20    0      0     0     0 I  0,0  0,0    0:00.00  rcu_gp
    4 root        0 -20    0     0     0 I  0,0  0,0    0:00.00  rcu_par_gp
    6 root        0 -20    0     0     0 I  0,0  0,0    0:00.00  kworker/0:0H-kb
    8 root       -20    0      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    0:00.11  rcu_sched
   11 root        20    0      0     0     0 I  0,0  0,0    0:00.00  rcu_bh
   12 root        rt    0      0     0     0 S  0,0  0,0    0:00.00  migration/0
   13 root        rt    0      0     0     0 S  0,0  0,0    0:00.00  watchdog/0
   14 root        20    0      0     0     0 S  0,0  0,0    0:00.00  cpuhp/0
   15 root        20    0      0     0     0 S  0,0  0,0    0:00.00  cpuhp/1
   16 root        rt    0      0     0     0 S  0,0  0,0    0:00.00  watchdog/1
   17 root        rt    0      0     0     0 S  0,0  0,0    0:00.00  migration/1
   18 root        20    0      0     0     0 S  0,0  0,0    0:00.00  ksoftirqd/1
   19 root        20    0      0     0     0 I  0,0  0,0    0:00.03  kworker/1:0-mm
   20 root        0 -20    0     0     0 I  0,0  0,0    0:00.00  kworker/1:0H-kb
```

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Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
    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    0:00.11  rcu_sched
   11 root        20    0      0     0     0 I  0,0  0,0    0:00.00  rcu_bh
   12 root        rt    0      0     0     0 S  0,0  0,0    0:00.00  migration/0
   13 root        rt    0      0     0     0 S  0,0  0,0    0:00.00  watchdog/0
   14 root        20    0      0     0     0 S  0,0  0,0    0:00.00  cpuhp/0
   15 root        20    0      0     0     0 S  0,0  0,0    0:00.00  cpuhp/1
   16 root        rt    0      0     0     0 S  0,0  0,0    0:00.00  watchdog/1
   17 root        rt    0      0     0     0 S  0,0  0,0    0:00.00  migration/1
   18 root        20    0      0     0     0 S  0,0  0,0    0:00.00  ksoftirqd/1
   19 root        20    0      0     0     0 I  0,0  0,0    0:00.03  kworker/1:0-mm
   20 root        0 -20    0     0     0 I  0,0  0,0    0:00.00  kworker/1:0H-kb
   21 root        20    0      0     0     0 S  0,0  0,0    0:00.00  cpuhp/2
   22 root        rt    0      0     0     0 S  0,0  0,0    0:00.00  watchdog/2
   23 root        rt    0      0     0     0 S  0,0  0,0    0:00.00  migration/2
   24 root        20    0      0     0     0 S  0,0  0,0    0:00.01  ksoftirqd/2
   25 root        20    0      0     0     0 I  0,0  0,0    0:00.01  kworker/2:0-mm

root@kayonpc8:/home/kayon-pc8# echo $SHELL
/bin/bash
root@kayonpc8:/home/kayon-pc8# echo {con,pre} {sent,fer} {s,ed}
con pre sent fer s ed
root@kayonpc8:/home/kayon-pc8# eecho {con,pre} {sent,fer} {s,ed}
eecho: command not found
root@kayonpc8:/home/kayon-pc8# echo {con,pre} {sent,fer} {s,ed}
con pre sent fer s ed
root@kayonpc8:/home/kayon-pc8# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc8:/home/kayon-pc8# man ls
manls: command not found
root@kayonpc8:/home/kayon-pc8# man ls
root@kayonpc8:/home/kayon-pc8#
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
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 -cftu-
vSUX 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
Manual page ls(1) line 1 (press h for help or q to quit)
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
 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 0:00.11 rcu_sched
11 root    20 0    0    0    0 I  0,0 0,0 0:00.00 rcu_bh
12 root    rt 0    0    0    0 S  0,0 0,0 0:00.00 migration/0
13 root    rt 0    0    0    0 S  0,0 0,0 0:00.00 watchdog/0
14 root    20 0    0    0    0 S  0,0 0,0 0:00.00 cpuhp/0
15 root    20 0    0    0    0 S  0,0 0,0 0:00.00 cpuhp/1
16 root    rt 0    0    0    0 S  0,0 0,0 0:00.00 watchdog/1
17 root    rt 0    0    0    0 S  0,0 0,0 0:00.00 migration/1
18 root    20 0    0    0    0 S  0,0 0,0 0:00.00 ksoftirqd/1
19 root    20 0    0    0    0 I  0,0 0,0 0:00.03 kworker/1:0-mm_
20 root    0 -20 0    0    0 I  0,0 0,0 0:00.00 kworker/1:0H-kb
21 root    20 0    0    0    0 S  0,0 0,0 0:00.00 cpuhp/2
22 root    rt 0    0    0    0 S  0,0 0,0 0:00.00 watchdog/2
23 root    rt 0    0    0    0 S  0,0 0,0 0:00.00 migration/2
24 root    20 0    0    0    0 S  0,0 0,0 0:00.01 ksoftirqd/2
25 root    20 0    0    0    0 I  0,0 0,0 0:00.01 kworker/2:0-mm_
root@kayonpc8:/home/kayon-pc8# echo $SHELL
/bin/bash
root@kayonpc8:/home/kayon-pc8# echo {con,pre} {sent,fer} {s,ed}
con pre sent fer s ed
root@kayonpc8:/home/kayon-pc8# ececho {con,pre} {sent,fer} {s,ed}
ececho: command not found
root@kayonpc8:/home/kayon-pc8# echo {con,pre} {sent,fer} {s,ed}
con pre sent fer s ed
root@kayonpc8:/home/kayon-pc8# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayonpc8:/home/kayon-pc8# manls
manls: command not found
root@kayonpc8:/home/kayon-pc8# man ls
root@kayonpc8:/home/kayon-pc8# man who
root@kayonpc8:/home/kayon-pc8#
```



```
Terminal - root@kayonpc8: /home/kayon-pc8
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
Manual page who(1) line 1 (press h for help or q to quit)
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
root@kayonpc8:/home/kayon-pc8# man who
root@kayonpc8:/home/kayon-pc8# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayonpc8:/home/kayon-pc8# last
kayon-pc tty7 :0 Wed Oct 9 23:33 gone - no logout
reboot system boot 4.18.0-22-generi Wed Oct 9 23:32 still running
kayon-pc tty7 :0 Tue Oct 8 16:44 - 17:35 (00:51)
reboot system boot 4.18.0-22-generi Tue Oct 8 16:43 - 17:35 (00:51)
kayon-pc tty7 :0 Tue Oct 8 16:42 - 16:42 (00:00)
reboot system boot 4.18.0-22-generi Tue Oct 8 16:41 - 16:42 (00:00)

wtmp begins Tue Oct 8 16:39:10 2019
root@kayonpc8:/home/kayon-pc8# fdisk -l
fdisk: invalid option -- 'l'
Try 'fdisk --help' for more information.
root@kayonpc8:/home/kayon-pc8# fdisk-l
fdisk-l: command not found
root@kayonpc8:/home/kayon-pc8# fdisk -l
Disk /dev/sda: 465,8 GiB, 500107862016 bytes, 976773168 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disklabel type: dos
Disk identifier: 0x80e875a7

Device Boot Start End Sectors Size Id Type
/dev/sda1 * 2048 206847 204800 100M 7 HPFS/NTFS/exFAT
/dev/sda2 206848 417794047 417587200 199,1G 7 HPFS/NTFS/exFAT
/dev/sda3 417796094 456855551 39059458 18,6G 5 Extended
/dev/sda5 417796096 456855551 39059456 18,6G 83 Linux
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help

root@kayonpc8:/home/kayon-pc8# users
kayon-pc8
root@kayonpc8:/home/kayon-pc8# 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/sda5 during installation
UUID=41d0f721-53c3-4ae9-9d36-0727bc4e87e6 / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayonpc8:/home/kayon-pc8# cal 2000
2000
      Januari          Februari          Maret
Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa Mi Se Se Ra Ka Ju Sa
      1      1 2 3 4 5      1 2 3 4
 2 3 4 5 6 7 8 6 7 8 9 10 11 12 5 6 7 8 9 10 11
 9 10 11 12 13 14 15 13 14 15 16 17 18 19 12 13 14 15 16 17 18
16 17 18 19 20 21 22 20 21 22 23 24 25 26 19 20 21 22 23 24 25
23 24 25 26 27 28 29 27 28 29 26 27 28 29 30 31
30 31

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

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help

 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@kayonpc8:/home/kayon-pc8# 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@kayonpc8:/home/kayon-pc8# 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@kayonpc8:/home/kayon-pc8# bc -l
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software Foundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type `warranty'.
quit
root@kayonpc8:/home/kayon-pc8# echo 5+4 | bc -l
9
root@kayonpc8:/home/kayon-pc8#
```



```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help

824 pwd
825 history
root@kayonpc8:/home/kayon-pc8# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayonpc8:/home/kayon-pc8# lsmod
Module                Size  Used by
joydev                24576  0
input_leds            16384  0
snd_hda_codec_hdmi    49152  1
nvidia_uvm            815104 0
eeepc_wmi             16384  0
snd_hda_codec_realtek 106496  1
snd_hda_codec_generic 73728  1 snd_hda_codec_realtek
snd_hda_intel         40960  2
snd_hda_codec         126976 4 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec_realtek
snd_hda_core          81920  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek
snd_hwdep             20480  1 snd_hda_codec
snd_pcm               98304  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
snd_seq_midi          16384  0
snd_seq_midi_event    16384  1 snd_seq_midi
snd_rawmidi           32768  1 snd_seq_midi
intel_rapl            20480  0
x86_pkg_temp_thermal 16384  0
intel_powerclamp      16384  0
coretemp              16384  0
snd_seq               65536  2 snd_seq_midi,snd_seq_midi_event
kvm_intel             208896 0
wmi_bmof              16384  0
kvm                   626688 1 kvm_intel
snd_seq_device        16384  3 snd_seq,snd_seq_midi,snd_rawmidi
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help

ipmi_msghandler       102400  2 ipmi_devintf,nvidia
video                 45056  1 asus_wmi
root@kayonpc8:/home/kayon-pc8# ps -aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.1 225344 9292 ?        Ss   16:32   0:01 /sbin/init splash
root         2  0.0  0.0      0     0 ?        S    16:32   0:00 [kthreadd]
root         3  0.0  0.0      0     0 ?        I<   16:32   0:00 [rcu_gp]
root         4  0.0  0.0      0     0 ?        I<   16:32   0:00 [rcu_par_gp]
root         6  0.0  0.0      0     0 ?        I<   16:32   0:00 [kworker/0:0H-kb]
root         8  0.0  0.0      0     0 ?        I<   16:32   0:00 [mm_percpu_wq]
root         9  0.0  0.0      0     0 ?        S    16:32   0:00 [ksoftirqd/0]
root        10  0.0  0.0      0     0 ?        I    16:32   0:00 [rcu_sched]
root        11  0.0  0.0      0     0 ?        I    16:32   0:00 [rcu_bh]
root        12  0.0  0.0      0     0 ?        S    16:32   0:00 [migration/0]
root        13  0.0  0.0      0     0 ?        S    16:32   0:00 [watchdog/0]
root        14  0.0  0.0      0     0 ?        S    16:32   0:00 [cpuhp/0]
root        15  0.0  0.0      0     0 ?        S    16:32   0:00 [cpuhp/1]
root        16  0.0  0.0      0     0 ?        S    16:32   0:00 [watchdog/1]
root        17  0.0  0.0      0     0 ?        S    16:32   0:00 [migration/1]
root        18  0.0  0.0      0     0 ?        S    16:32   0:00 [ksoftirqd/1]
root        19  0.0  0.0      0     0 ?        I    16:32   0:00 [kworker/1:0-mm_]
root        20  0.0  0.0      0     0 ?        I<   16:32   0:00 [kworker/1:0H-kb]
root        21  0.0  0.0      0     0 ?        S    16:32   0:00 [cpuhp/2]
root        22  0.0  0.0      0     0 ?        S    16:32   0:00 [watchdog/2]
root        23  0.0  0.0      0     0 ?        S    16:32   0:00 [migration/2]
root        24  0.0  0.0      0     0 ?        S    16:32   0:00 [ksoftirqd/2]
root        25  0.0  0.0      0     0 ?        I    16:32   0:00 [kworker/2:0-mm_]
root        26  0.0  0.0      0     0 ?        I<   16:32   0:00 [kworker/2:0H-kb]
root        27  0.0  0.0      0     0 ?        S    16:32   0:00 [cpuhp/3]
root        28  0.0  0.0      0     0 ?        S    16:32   0:00 [watchdog/3]
root        29  0.0  0.0      0     0 ?        S    16:32   0:00 [migration/3]
root        30  0.0  0.0      0     0 ?        S    16:32   0:00 [ksoftirqd/3]
```



```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help

root@kayonpc8:/home/kayon-pc8# 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@kayonpc8:/home/kayon-pc8# free
              total        used        free      shared  buff/cache   available
Mem:           8106424       551656       6367408        12892       1187360       7275348
Swap:          902700           0         902700
root@kayonpc8:/home/kayon-pc8# 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        : 3670.712
cache size     : 6144 KB
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help

power management:

root@kayonpc8:/home/kayon-pc8# finger root
Login: root                      Name: root
Directory: /root                 Shell: /bin/bash
Never logged in.
No mail.
No Plan.
root@kayonpc8:/home/kayon-pc8# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
root@kayonpc8:/home/kayon-pc8# ls -l
total 32
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Desktop
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Documents
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Downloads
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Music
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Pictures
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Public
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Templates
drwxr-xr-x 2 kayon-pc8 kayon-pc8 4096 Sep  4 17:24 Videos
root@kayonpc8:/home/kayon-pc8# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayonpc8:/home/kayon-pc8# whatis ls
ls (1)                - list directory contents
root@kayonpc8:/home/kayon-pc8# whatis mkdir
mkdir (1)              - make directories
mkdir (2)              - create a directory
root@kayonpc8:/home/kayon-pc8# mkdir informatika
root@kayonpc8:/home/kayon-pc8# rmdir informatika
root@kayonpc8:/home/kayon-pc8# touch rpl.txt
root@kayonpc8:/home/kayon-pc8# rm rpl.txt
```



```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
root@kayonpc8:/home/kayon-pc8# which mkdir
/bin/mkdir
root@kayonpc8:/home/kayon-pc8# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayonpc8:/home/kayon-pc8# df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            4012956      0   4012956   0% /dev
tmpfs           810644      1348    809296   1% /run
/dev/sda5       19092136 8583180   9516088  48% /
tmpfs           4053212      0   4053212   0% /dev/shm
tmpfs           5120         4      5116   1% /run/lock
tmpfs           4053212      0   4053212   0% /sys/fs/cgroup
tmpfs           810640      16    810624   1% /run/user/1000
root@kayonpc8:/home/kayon-pc8# du
4      ./Desktop
4      ./local/share/inxi
4      ./local/share/ristretto
8      ./local/share/PacketTracer7/LocalStorage
36     ./local/share/PacketTracer7
8      ./local/share/applications
4      ./local/share/xfpanel-switch
4      ./local/share/nano
552    ./local/share/NetacadExamPlayer/QtWebEngine/Default/GPUCache
556    ./local/share/NetacadExamPlayer/QtWebEngine/Default
560    ./local/share/NetacadExamPlayer/QtWebEngine
564    ./local/share/NetacadExamPlayer
12     ./local/share/keyrings
644    ./local/share
648    ./local
1508   ./config/libreoffice/4/user/backup
4      ./config/libreoffice/4/user/uno_packages/cache/uno_packages
4      ./config/libreoffice/4/user/uno_packages/cache/registry/com.sun.star.comp.deployment.bundle.PackageRegistryBackend
```

```
Terminal - root@kayonpc8: /home/kayon-pc8
File Edit View Terminal Tabs Help
4      ./Music
75336  .
root@kayonpc8:/home/kayon-pc8# free
              total        used        free      shared  buff/cache   available
Mem:      8106424      558520      6357924      13020      1189980      7267796
Swap:      902700           0      902700
root@kayonpc8:/home/kayon-pc8# pstree
systemd--ModemManager--2*[{ModemManager}]
      |
      |--NetworkManager--dhclient
      |                   2*[{NetworkManager}]
      |--Thunar
      |--accounts-daemon--2*[{accounts-daemon}]
      |--acpid
      |--apt.systemd.dai--apt.systemd.dai--unattended-upgr
      |--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}]
```

### Penjelasan :

1. **Echo** : Menampilkan baris teks/menampilkan tulisan yang di buat setelah perintah echo dan itu tidak disimpan
2. **Date** : perintah untuk menampilkan informasi tanggal dan waktu saat ini
3. **Hostname** : Perintah untuk menampilkan host atau domain name sistem dan bisa pula digunakan untuk mengeset nama host sistem.
4. **Arch** : Berfungsi untuk menampilkan jenis arsitektur dari sebuah mesin.
5. **Uname -a** : Perintah untuk menampilkan informasi Sistem Operasi (distro, versi, nama mesin dll), perintah untuk melihat identitas mesin lebih lengkap.
6. **Dmesg | more** : Mencetak pesan-pesan pada waktu proses boot dengan menampilkan perlayar
7. **Uptime** : Mengetahui informasi tentang lama sistem berjalan setelah terakhir reboot atau mati
8. **Whoami** : perintah untuk menanyakan siapa yang sekarang sedang bekerja (user apa yang sedang digunakan).
9. **Who** : Perintah untuk menampilkan siapa saja yang sedang login. Perintah ini akan menampilkan informasi mengenai login name, jenis terminal, waktu login dan remote hostname untuk setiap user yang saat itu sedang login.
10. **Id** : Menampilkan identitas users
11. **Last** : Berfungsi untuk menampilkan daftar login terakhir yang ada pada sistem dengan melakukan pengambilan data dari file /var/log/wtmp.
12. **Finger** : Perintah untuk melihat informasi finger
13. **W** : Perintah untuk mengetahui siapa saja yang sedang aktif.
14. **Top** : Melihat semua proses yang sedang berjalan, diurutkan dari proses yang paling besar.
15. **Echo \$SHELL** : Bin/Bash.
16. **Echo {con,pre}{sent,fer}{s,ed}** : Akan menyusun banyak kata-kata
17. **Man ls** : Menampilkan informasi tentang perintah "ls"
18. **Man who** : Menampilkan informasi tentang perintah "who"
19. **.Who can tell me about linux** : Gagal (Karena tidak bisa).
20. **Last** : Berfungsi untuk menampilkan daftar login terakhir yang ada pada sistem dengan melakukan pengambilan data dari file /var/log/wtmp.
21. **Clear** : Perintah untuk menghapus layar.
22. **Fdisk -l** : Menampilkan list partisi pada perangkat.
23. **Users** : Berfungsi untuk menampilkan daftar user yang sedang aktif pada sebuah perangkat.

24. **Cat /etc/fstab** : Melihat file system yang telah disetup
25. **Cal 2000** : Untuk melihat kalendar tahun 2000.
26. **Cal 9 1752** : Untuk melihat kalender dibulan September tahun 1752.
27. **Cal 10 2007** : Untuk melihat kalender dibulan Oktober tahun 2007.
28. **Bc -l** : Menampilkan versi bc (bahasa kalkulator).
29. **Echo 5+4 | bc-l** : Menampilkan hasil penjumlahan yaitu 9.
30. **Yes please** : Cetak String "Please" sampai interrupt.
31. **Pwd** : Digunakan untuk memperlihatkan di direktori mana posisi kita berada sekarang.
32. **History** : Berfungsi untuk menampilkan riwayat perintah yang digunakan.
33. **Tail -f /var/log/mesage** :
34. **Lsmod** : Untuk menampilkan module /driver yang di load ke kernel.
35. **Ps -axu** : Melihat seluruh proses yang dijalankan, walaupun tanpa terminal control, juga ditampilkan nama dari user untuk setiap proses
36. **Lspci** : Melihat spesifikasi hardware dari komputer yang sedang kita gunakan.
37. **Free** : Melihat informasi penggunaan memory (RAM dan swap).
38. **Cat /proc/cpuinfo** : CPU info. Melihat pada/proc directory yang bukan merupakan file nyata (Not real files).
39. **Finger root** : Melihat informasi finger root.
40. **Reboot** : Berfungsi untuk menghidupkan ulang atau melakukan restart sistem sebuah komputer yang sedang hidup atau sedang berjalan.
41. **Halt** : Perintah ini hanya bisa dijalankan oleh super user atau Anda harus login sebagai root. Perintah ini untuk memberitahu kernel supaya mematikan sistem atau shutdown.

**Dipapan Tulis :**

42. **Ls** : Perintah untuk menampilkan isi dari suatu direktori.
43. **Ls -l** : Perintah yang untuk melihat dengan daftar list dari suatu direktory.
44. **Ls -l/home** : Melihat semua file lengkap yang ada di home.
45. **Whatis ls** : Menampilkan manual atau deskripsi dari perintah ls.
46. **Whatis mkdir** : Menampilkan manual atau deskripsi dari perintah mkdir.
47. **Mkdir informatika** : Digunakan membuat sebuah directory informatika.
48. **Rmdir informatika** : Untuk menghapus direktori informatika.

49. **Rm rpl.txt** : Menghapus file rpl.txt .
50. **Which mkdir** : Mengetahui letak file perintah.
51. **Where ls** : Menunjukkan lokasi file ls.
52. **Df** : Digunakan untuk melihat report sisa ruang disk space pada linux sistem.
53. **Du** : Digunakan untuk melihat summary ukuran pemakaian volume untuk setiap folder atau file yang ada dalam sistem.
54. **Free** : Melihat informasi penggunaan memory (RAM dan swap).
55. **Pstree** :Mmenampilkan semua proses pada sistem dalam bentuk hirarki/parent