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Kelas : E

MODUL 5

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Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help
kayon-pc23@kayon-pc23:~$ sudo su
[sudo] password for kayon-pc23:
root@kayon-pc23: /home/kayon-pc23# echo halo dunia
halo dunia
root@kayon-pc23: /home/kayon-pc23# date
Wed Oct 9 16:40:40 WIB 2019
root@kayon-pc23: /home/kayon-pc23# hostname
kayon-pc23
root@kayon-pc23: /home/kayon-pc23# arch
x86_64
root@kayon-pc23: /home/kayon-pc23# uname -a
Linux kayon-pc23 5.0.0-31-generic #33-18.04.1-Ubuntu SMP Tue Oct 1 10:20:39 UTC 2019 x86_64 x86_64 GNU/Linux
root@kayon-pc23: /home/kayon-pc23# dmesg | more
[ 0.000000] microcode: microcode updated early to revision 0x27, date = 2019-02-26
[ 0.000000] Linux version 5.0.0-31-generic (buildde@gw01-amd64-046) (gcc version 7.4.0 (Ubuntu 7.4.0-1ubuntu1-18.04.1)) #33-18.04.1-Ubuntu SMP Tue Oct 1 10:20:39 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=d4149e34-e276-4ae9-a4ca-0a7167815f15 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 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 0x0000000000000000-0x000000000009d7ff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000009d800-0x000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000000e0000-0x00000000000ffffff] reserved
root@kayon-pc23: /home/kayon-pc23# uptime
16:50:44 up 17 min, 1 user, load average: 0.01, 0.09, 0.18
root@kayon-pc23: /home/kayon-pc23# whoami
root
root@kayon-pc23: /home/kayon-pc23# who
kayon-pc23 tty7      2019-10-09 23:34 (:0)
root@kayon-pc23: /home/kayon-pc23# id
uid=0(root) gid=0(root) groups=0(root)
root@kayon-pc23: /home/kayon-pc23# last
kayon-pc tty7      :0          Wed Oct 9 23:34   gone - no logout
root@kayon-pc23: /home/kayon-pc23#
```

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Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help
reboot system boot 5.0.0-31-generic Wed Oct 9 23:33 still running
kayon-pc tty7      :0          Tue Oct 8 16:15 - 17:28 (01:12)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:14 - 17:28 (01:13)

wtmp begins Tue Oct 8 15:36:54 2019
root@kayon-pc23: /home/kayon-pc23# finger
Command 'finger' not found, but can be installed with:
apt install finger

root@kayon-pc23: /home/kayon-pc23# w
16:51:41 up 18 min, 1 user, load average: 0.05, 0.08, 0.17
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
kayon-pc  tty7      :0            23:34    ?      12.57s 0.02s  /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayon-pc23: /home/kayon-pc23# top

top - 16:51:44 up 18 min, 1 user, load average: 0.05, 0.08, 0.17
Tasks: 190 total, 1 running, 139 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.2 us, 0.5 sy, 0.2 ni, 95.3 id, 2.7 wa, 0.0 hi, 0.1 si, 0.0 st
Mem: 8103664 total, 6533366 free, 479360 used, 1688000 buff/cache
MemSwap: 947080 total, 947080 free, 0 used, 7343992 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
 7004 root        20   0 51672 4076 3392  R   6.7   0.1   0:00.01 top
    1 root        20   0 225320 9168 6740  S   0.0   0.1   0:01.20 systemd
    2 root        20   0      0      0      0  S   0.0   0.0   0:00.00 kthreadd
    3 root        0 -20      0      0      0  I   0.0   0.0   0:00.00 rcu_gp
    4 root        0 -20      0      0      0  I   0.0   0.0   0:00.00 rcu_par_gp
    6 root        0 -20      0      0      0  I   0.0   0.0   0:00.00 kworker/0:0H-kb
    8 root        0 -20      0      0      0  I   0.0   0.0   0:00.00 mm_percpu_wq
    9 root        20   0      0      0      0  S   0.0   0.0   0:00.00 ksoftirqd/0
   10 root        20   0      0      0      0  I   0.0   0.0   0:00.38 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
   13 root        20   0      0      0      0  S   0.0   0.0   0:00.00 kworker/0:1-eve
   14 root        20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/0
   15 root        20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/1
   16 root       -51   0      0      0      0  S   0.0   0.0   0:00.00 idle_inject/1
   17 root        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 cpuhp/2
   22 root       -51   0      0      0      0  S   0.0   0.0   0:00.00 idle_inject/2
   23 root        rt   0      0      0      0  S   0.0   0.0   0:00.00 migration/2
   24 root        20   0      0      0      0  S   0.0   0.0   0:00.00 ksoftirqd/2
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Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help
12 root -51 0 0 0 0 0 0 0 0:00.00 idle_inject/0
13 root 20 0 0 0 0 0 0 0 0:00.00 kworker/0:1-eve
14 root 20 0 0 0 0 0 0 0 0:00.00 cpuhp/0
15 root 20 0 0 0 0 0 0 0 0:00.00 cpuhp/1
16 root -51 0 0 0 0 0 0 0 0:00.00 idle_inject/1
17 root rt 0 0 0 0 0 0 0 0:00.00 migration/1
18 root 20 0 0 0 0 0 0 0 0:00.01 ksoftirqd/1
20 root 0 -20 0 0 0 0 0 0 0:00.00 kworker/1:0H-kb
21 root 20 0 0 0 0 0 0 0 0:00.00 cpuhp/2
22 root -51 0 0 0 0 0 0 0 0:00.00 idle_inject/2
23 root rt 0 0 0 0 0 0 0 0:00.00 migration/2
24 root 20 0 0 0 0 0 0 0 0:00.00 ksoftirqd/2
25 root 20 0 0 0 0 0 0 0 0:00.06 kworker/2:0-eve
26 root 0 -20 0 0 0 0 0 0 0:00.00 kworker/2:0H-kb
27 root 20 0 0 0 0 0 0 0 0:00.00 cpuhp/3
28 root -51 0 0 0 0 0 0 0 0:00.00 idle_inject/3
29 root rt 0 0 0 0 0 0 0 0:00.00 migration/3
30 root 20 0 0 0 0 0 0 0 0:00.00 ksoftirqd/3
32 root 0 -20 0 0 0 0 0 0 0:00.00 kworker/3:0H-kb
33 root 20 0 0 0 0 0 0 0 0:00.00 kdevtmpfs
34 root 0 -20 0 0 0 0 0 0 0:00.00 netns
35 root 20 0 0 0 0 0 0 0 0:00.00 rcu_tasks_kthre
36 root 20 0 0 0 0 0 0 0 0:00.00 kauditd
38 root 20 0 0 0 0 0 0 0 0:00.00 khungtaskd
39 root 20 0 0 0 0 0 0 0 0:00.00 oom_reaper
40 root 0 -20 0 0 0 0 0 0 0:00.00 writeback
41 root 20 0 0 0 0 0 0 0 0:00.00 kcompactd0
42 root 25 5 0 0 0 0 0 0 0:00.00 ksmtd
root@kayon-pc23:/home/kayon-pc23# echo $SHELL
/bin/bash
root@kayon-pc23:/home/kayon-pc23# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayon-pc23:/home/kayon-pc23# man ls
root@kayon-pc23:/home/kayon-pc23# man who
root@kayon-pc23:/home/kayon-pc23# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayon-pc23:/home/kayon-pc23# last
kayon-pc tty7 :0 Wed Oct 9 23:34 gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct 9 23:33 still running
kayon-pc tty7 :0 Tue Oct 8 16:15 - 17:28 (01:12)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:14 - 17:28 (01:13)

wtmp begins Tue Oct 8 15:36:54 2019
root@kayon-pc23:/home/kayon-pc23#
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Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help
Try 'who --help' for more information.
root@kayon-pc23:/home/kayon-pc23# last
kayon-pc tty7 :0 Wed Oct 9 23:34 gone - no logout
reboot system boot 5.0.0-31-generic Wed Oct 9 23:33 still running
kayon-pc tty7 :0 Tue Oct 8 16:15 - 17:28 (01:12)
reboot system boot 5.0.0-31-generic Tue Oct 8 16:14 - 17:28 (01:13)

wtmp begins Tue Oct 8 15:36:54 2019
root@kayon-pc23:/home/kayon-pc23# clear

root@kayon-pc23:/home/kayon-pc23# fdisk -l
Disk /dev/sda: 465.8 GiB, 500107062016 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: 0x80e075a7

Device Boot Start End Sectors Size Id Type
/dev/sda1 * 2048 1026047 1024000 500M 7 HPFS/NTFS/exFAT
/dev/sda2 1026048 410626047 409600000 195.3G 7 HPFS/NTFS/exFAT
/dev/sda3 410626048 935811071 525185024 250.4G 7 HPFS/NTFS/exFAT
/dev/sda4 935811072 976771071 40960000 19.5G 83 Linux

root@kayon-pc23:/home/kayon-pc23# users
kayon-pc23
root@kayon-pc23:/home/kayon-pc23# 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=d4149e34-e276-4ae9-a4ca-6a7167015f15 / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayon-pc23:/home/kayon-pc23#
```

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Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help

# 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=d4149e34-e276-4ae9-a4ca-0a7167815f15 / ext4 errors=remount-ro 0 1
/swapfile none swap sw 0 0
root@kayon-pc23: /home/kayon-pc23# 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
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@kayon-pc23: /home/kayon-pc23#
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Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help

     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@kayon-pc23: /home/kayon-pc23# 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@kayon-pc23: /home/kayon-pc23# 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@kayon-pc23: /home/kayon-pc23# 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@kayon-pc23: /home/kayon-pc23# echo 5+4 | bc -l
9
root@kayon-pc23: /home/kayon-pc23#
```

```
Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help
please
please
please
please
plea^C
root@kayon-pc23:/home/kayon-pc23# pwd
/home/kayon-pc23
root@kayon-pc23:/home/kayon-pc23# history
1 clear
2 apt update
3 apt-get upgrade
4 clear
5 apt autoremove
6 apt upgrade
7 apt autoremove
8 apt autoclean
9 nano /etc/bash.bashrc
10 clear
11 apt install ssh
12 clear
13 apt install ssh
14 service ssh restart
15 apt install ubiquity-slideshow-xubuntu
16 apt install -f
17 clear
18 nano /etc/lsb-release
19 clear
20 clear
21 clear
22 lsb_release -a
23 clear
24 apt purge pinguybuilder
25 clear
26 apt autoremove
27 clear
28 apt autoclean
29 clear
30 kdjb
31 cd ..
32 ls
33 rm -rf PinguyBuilder/*
34 ls
35 rm -rf PinguyBuilder
36 ls
37 cd master/
38 ls
```

```
Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help
817 man ls
818 man who
819 who can tell me about linux
820 last
821 clear
822 fdisk -l
823 users
824 cat/etc/fstab
825 cal 2000
826 cal 9 1752
827 cal 10 2007
828 bc -l
829 echo halo dunia
830 date
831 hostname
832 arch
833 uname -a
834 dmesg | more
835 uptime
836 whoami
837 who
838 id
839 last
840 finger
841 w
842 top
843 echo $SHELL
844 echo {con,pre}{sent,fer}{s,ed}
845 man ls
846 man who
847 who can tell me about linux
848 last
849 clear
850 fdisk -l
851 users
852 cat /etc/fstab
853 cal 2000
854 cal 9 1752
855 cal 10 2007
856 bc -l
857 echo 3+4 | bc -l
858 yes please
859 pwd
860 history
root@kayon-pc23:/home/kayon-pc23#
```

```
Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help
823 users
824 cat/etc/fstab
825 cal 2000
826 cal 9 1752
827 cal 10 2007
828 bc -l
829 echo halo dunia
830 date
831 hostname
832 arch
833 uname -a
834 dmesg | more
835 uptime
836 whoami
837 who
838 id
839 last
840 finger
841 w
842 top
843 echo $SHELL
844 echo {con,pre}{sent,fer}{s,ed}
845 man ls
846 man who
847 who can tell me about linux
848 last
849 clear
850 fdisk -l
851 users
852 cat /etc/fstab
853 cal 2000
854 cal 9 1752
855 cal 10 2007
856 bc -l
857 echo 5+4 | bc -l
858 yes please
859 pwd
860 history
root@kayon-pc23:/home/kayon-pc23# tail -f /var/log/message
tail: invalid option -- '/'
Try 'tail --help' for more information.
root@kayon-pc23:/home/kayon-pc23# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@kayon-pc23:/home/kayon-pc23#
```

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Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help
tail: no files remaining
root@kayon-pc23:/home/kayon-pc23# ^C
root@kayon-pc23:/home/kayon-pc23# 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            241064  0
kvm                  630784  1 kvm_intel
irqbypass            16384  1 kvm
snd_hda_codec_hdmi   53248  1
joydev               28672  0
input_leds           16384  0
crt104if_pcmul       16384  1
crc32_pcmul          16384  0
ghash_clmulni_intel  16384  0
aesni_intel          372736  0
snd_hda_codec_realtek 114688  1
snd_hda_codec_generic 77824  1 snd_hda_codec_realtek
aes_x86_64           20480  1 aesni_intel
ledtrig_audio         16384  2 snd_hda_codec_generic,snd_hda_codec_realtek
crypto_simd           16384  1 aesni_intel
cryptd               24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel
glue_helper           16384  1 aesni_intel
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          56016  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               102400  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
mei_me                40960  0
snd_seq_midi          20480  0
snd_seq_midi_event    16384  1 snd_seq_midi
snd_rawmidi           36864  1 snd_seq_midi
mei                  106496  1 mei_me
snd_seq               69632  2 snd_seq_midi,snd_seq_midi_event
intel_cstate          20480  0
```



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Terminal - root@kayon-pc23: /home/kayon-pc23

File Edit View Terminal Tabs Help

eeepc_wmi 16384 0
asus_wmi 28672 1 eeepc_wmi
soundcore 16384 1 snd
sparse_keymap 16384 1 asus_wmi
lpc_ich 24576 0
mac_hid 16384 0
nvidia_uvm 819200 0
wmi_bmf 16384 0
sch_fq_codel 20480 2
parport_pc 36864 1
ppdev 24576 0
lp 20480 0
parport 53248 3 parport_pc,lp,ppdev
ip_tables 32768 0
x_tables 40960 1 ip_tables
autofs4 45056 2
btrfs 1175552 0
xor 24576 1 btrfs
zstd_compress 163840 1 btrfs
raid6_pq 114688 1 btrfs
libcrc32c 16384 2 btrfs,xfs
dm_mirror 24576 0
dm_region_hash 20480 1 dm_mirror
dm_log 20480 2 dm_region_hash,dm_mirror
hid_generic 16384 0
usbhid 53248 0
hid 126076 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
rsl69 86016 0
ahci 40960 1
drm 483328 6 drm_kms_helper,nvidia_drm
realtek 20480 0
libahci 32768 1 ahci
ipmi_devintf 20480 0
ipmi_msghandler 102400 2 ipmi_devintf,nvidia
wmi 28672 2 asus_wmi,wmi_bmf
video 49152 1 asus_wmi
root@kayon-pc23: /home/kayon-pc23#
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Terminal - root@kayon-pc23: /home/kayon-pc23

File Edit View Terminal Tabs Help

root@kayon-pc23: /home/kayon-pc23# ps -aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1   0.0  0.1 225320 9168 ?        Ss   16:33   0:01 /sbin/init splash
root         2   0.0  0.0      0   0 ?        S    16:33   0:00 [kthreadd]
root         3   0.0  0.0      0   0 ?        I<   16:33   0:00 [rcu_gp]
root         4   0.0  0.0      0   0 ?        I<   16:33   0:00 [rcu_par_gp]
root         6   0.0  0.0      0   0 ?        I<   16:33   0:00 [kworker/0:0H-kb]
root         8   0.0  0.0      0   0 ?        I<   16:33   0:00 [mm_percpu_wq]
root         9   0.0  0.0      0   0 ?        S    16:33   0:00 [ksoftirqd/0]
root        10   0.0  0.0      0   0 ?        I    16:33   0:00 [rcu_sched]
root        11   0.0  0.0      0   0 ?        S    16:33   0:00 [migration/0]
root        12   0.0  0.0      0   0 ?        S    16:33   0:00 [idle_inject/0]
root        13   0.0  0.0      0   0 ?        I    16:33   0:00 [kworker/0:1-eve]
root        14   0.0  0.0      0   0 ?        S    16:33   0:00 [cpuhp/0]
root        15   0.0  0.0      0   0 ?        S    16:33   0:00 [cpuhp/1]
root        16   0.0  0.0      0   0 ?        S    16:33   0:00 [idle_inject/1]
root        17   0.0  0.0      0   0 ?        S    16:33   0:00 [migration/1]
root        18   0.0  0.0      0   0 ?        S    16:33   0:00 [ksoftirqd/1]
root        20   0.0  0.0      0   0 ?        I<   16:33   0:00 [kworker/1:0H-kb]
root        21   0.0  0.0      0   0 ?        S    16:33   0:00 [cpuhp/2]
root        22   0.0  0.0      0   0 ?        S    16:33   0:00 [idle_inject/2]
root        23   0.0  0.0      0   0 ?        S    16:33   0:00 [migration/2]
root        24   0.0  0.0      0   0 ?        S    16:33   0:00 [ksoftirqd/2]
root        25   0.0  0.0      0   0 ?        I    16:33   0:00 [kworker/2:0-eve]
root        26   0.0  0.0      0   0 ?        I<   16:33   0:00 [kworker/2:0H-kb]
root        27   0.0  0.0      0   0 ?        S    16:33   0:00 [cpuhp/3]
root        28   0.0  0.0      0   0 ?        S    16:33   0:00 [idle_inject/3]
root        29   0.0  0.0      0   0 ?        S    16:33   0:00 [migration/3]
root        30   0.0  0.0      0   0 ?        S    16:33   0:00 [ksoftirqd/3]
root        32   0.0  0.0      0   0 ?        I<   16:33   0:00 [kworker/3:0H-kb]
root        33   0.0  0.0      0   0 ?        S    16:33   0:00 [kdevtmpfs]
root        34   0.0  0.0      0   0 ?        I<   16:33   0:00 [netns]
root        35   0.0  0.0      0   0 ?        S    16:33   0:00 [rcu_tasks_kthre]
root        36   0.0  0.0      0   0 ?        S    16:33   0:00 [kauditd]
root        38   0.0  0.0      0   0 ?        S    16:33   0:00 [khungtaskd]
root        39   0.0  0.0      0   0 ?        S    16:33   0:00 [oom_reaper]
root        40   0.0  0.0      0   0 ?        I<   16:33   0:00 [writeback]
root        41   0.0  0.0      0   0 ?        S    16:33   0:00 [kcompactd0]
root        42   0.0  0.0      0   0 ?        SN   16:33   0:00 [kcmd]
root        43   0.0  0.0      0   0 ?        SN   16:33   0:00 [khugepaged]
root        44   0.0  0.0      0   0 ?        I<   16:33   0:00 [crypto]
root        45   0.0  0.0      0   0 ?        I<   16:33   0:00 [kintegrityd]
root        46   0.0  0.0      0   0 ?        I<   16:33   0:00 [kblockd]
root        47   0.0  0.0      0   0 ?        I<   16:33   0:00 [tpm_dev_wq]
root        48   0.0  0.0      0   0 ?        I<   16:33   0:00 [ata_sff]
root        49   0.0  0.0      0   0 ?        I<   16:33   0:00 [nd]
```

```
Terminal - root@kayon-pc23: /home/kayon-pc23

File Edit View Terminal Tabs Help

kayon-p# 2675 0.0 0.0 82724 7024 ? Ss 16:34 0:00 /usr/lib/bluetooth/obexd
root 4592 0.0 0.0 0 0 ? I< 16:34 0:00 [xfsalloc]
root 4594 0.0 0.0 0 0 ? I< 16:34 0:00 [xfs_mru_cache]
root 4606 0.0 0.0 0 0 ? S 16:34 0:00 [jfsIO]
root 4607 0.0 0.0 0 0 ? S 16:34 0:00 [jfsCommit]
root 4608 0.0 0.0 0 0 ? S 16:34 0:00 [jfsCommit]
root 4609 0.0 0.0 0 0 ? S 16:34 0:00 [jfsCommit]
root 4610 0.0 0.0 0 0 ? S 16:34 0:00 [jfsCommit]
root 4611 0.0 0.0 0 0 ? S 16:34 0:00 [jfsSync]
root 6662 0.0 0.1 108148 8120 ? Ss 16:38 0:00 /usr/sbin/cupsd -l
root 6663 0.0 0.1 303520 10940 ? Ssl 16:38 0:00 /usr/sbin/cups-browsed
kayon-p# 6799 2.4 0.5 591980 44724 ? SL 16:47 0:34 /usr/bin/xfce4-terminal
kayon-p# 6803 0.0 0.0 308022 4726 pts/0 Ss 16:47 0:00 bash
kayon-p# 6812 0.0 0.0 153012 6368 ? SL 16:47 0:00 /usr/lib/libreoffice/program/oosplash --writer
kayon-p# 6829 3.1 2.7 1220988 224760 ? SL 16:47 0:44 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
root 6849 0.0 0.0 0 0 ? I 16:49 0:00 [kworker/3:0-cgr]
root 6850 0.0 0.0 73424 4468 pts/0 S 16:49 0:00 sudo su
root 6851 0.0 0.0 72712 3904 pts/0 S 16:49 0:00 su
root 6852 0.0 0.0 308084 5076 pts/0 S 16:49 0:00 bash
root 6866 0.3 0.0 0 0 ? I 16:50 0:03 [kworker/u8:0-ev]
root 6857 0.5 0.0 0 0 ? I 16:55 0:04 [kworker/u8:1-ev]
kayon-p# 9242 0.0 0.0 30032 4760 pts/1 Ss 17:02 0:00 bash
root 9251 0.0 0.0 73424 4344 pts/1 S 17:02 0:00 sudo su
root 9252 0.0 0.0 72712 4040 pts/1 S 17:02 0:00 su
root 9253 0.0 0.0 308084 5076 pts/1 S+ 17:02 0:00 bash
root 10146 0.0 0.0 47236 3708 pts/0 R+ 17:11 0:00 ps -aux

root@kayon-pc23:/home/kayon-pc23# 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@kayon-pc23:/home/kayon-pc23#
```

```
Terminal - root@kayon-pc23: /home/kayon-pc23

File Edit View Terminal Tabs Help

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@kayon-pc23:/home/kayon-pc23# free
              total        used        free      shared  buff/cache   available
Mem:      8103664      567340      6419108       16532      1117216      7246816
Swap:      947080           0       947080

root@kayon-pc23:/home/kayon-pc23# 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        : 798.193
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 vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms
invpcid xsaveopt dtherm ida arat pln pts md_clear flush_l1d
bugs           : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapsgs
bogomips       : 6584.68
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
```

```
Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help

invpcid xsaveopt dtherm ida arat pln pts md_clear flush_lld
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips : 6584.68
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 : 798.227
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 vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 bmi2 erms
invpcid xsaveopt dtherm ida arat pln pts md_clear flush_lld
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs
bogomips : 6584.68
clflush size : 64
cache alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:

root@kayon-pc23:/home/kayon-pc23# finger root

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

apt install finger

root@kayon-pc23:/home/kayon-pc23#
```

```
Terminal - root@kayon-pc23: /home/kayon-pc23
File Edit View Terminal Tabs Help

root@kayon-pc23:/home/kayon-pc23# ls
Desktop Documents Music Pictures Public Templates Videos
root@kayon-pc23:/home/kayon-pc23# ls -l
total 32
drwxr-xr-x 2 kayon-pc23 kayon-pc23 4096 Sep  4 11:28 Desktop
drwxr-xr-x 2 kayon-pc23 kayon-pc23 4096 Okt  9 17:17 Documents
drwxr-xr-x 2 kayon-pc23 kayon-pc23 4096 Sep  4 11:28 Downloads
drwxr-xr-x 2 kayon-pc23 kayon-pc23 4096 Sep  4 11:28 Music
drwxr-xr-x 2 kayon-pc23 kayon-pc23 4096 Okt  8 17:25 Pictures
drwxr-xr-x 2 kayon-pc23 kayon-pc23 4096 Sep  4 11:28 Public
drwxr-xr-x 2 kayon-pc23 kayon-pc23 4096 Sep  4 11:28 Templates
drwxr-xr-x 2 kayon-pc23 kayon-pc23 4096 Sep  4 11:28 Videos
root@kayon-pc23:/home/kayon-pc23# ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
root@kayon-pc23:/home/kayon-pc23# ls -l /home
total 4
drwxr-xr-x 17 kayon-pc23 kayon-pc23 4096 Okt  9 2019 kayon-pc23
root@kayon-pc23:/home/kayon-pc23# whatis ls
ls (1)                - list directory contents
root@kayon-pc23:/home/kayon-pc23# whatis mkdir
mkdir (1)             - make directories
root@kayon-pc23:/home/kayon-pc23# mkdir informatika
root@kayon-pc23:/home/kayon-pc23# rmdir informatika
root@kayon-pc23:/home/kayon-pc23# touch rpl.txt
root@kayon-pc23:/home/kayon-pc23# rm rpl.txt
root@kayon-pc23:/home/kayon-pc23# which mkdir
/bin/mkdir
root@kayon-pc23:/home/kayon-pc23# whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
root@kayon-pc23:/home/kayon-pc23# df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev             4009340         0  4009340   0% /dev
tmpfs            810368      1348    809020   1% /run
/dev/sda4       20627216 8572488  18414344  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        20    810344   1% /run/user/1000
root@kayon-pc23:/home/kayon-pc23# du
44  ./gnome2/gtksourceview-1.0/language-specs
48  ./gnome2/gtksourceview-1.0
52  ./gnome2
4   ./Videos
```



```

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-dnssd—2*[{gvfsd-dnssd}]
      gvfsd-network—3*[{gvfsd-network}]
      gvfsd-trash—2*[{gvfsd-trash}]
      2*[{gvfsd}]
gvfsd-fuse—5*[{gvfsd-fuse}]
gvfsd-metadata—2*[{gvfsd-metadata}]
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—5*[{soffice.bin}]
      2*[{oosplash}]
      2*[{panel-1-whisker}]
      panel-4-systray—2*[{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}]
      2*[{xfce4-panel}]
xfce4-power-man—2*[{xfce4-power-man}]
xfce4-terminal—bash—sudo—su—bash—pstree
      bash—sudo—su—bash
      2*[{xfce4-terminal}]
xfdesktop—2*[{xfdesktop}]
xfsettingsd—2*[{xfsettingsd}]
xfwm4
root@kayon-pc23: /home/kayon-pc23#

```

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	Menampilkna identitas users
11.	last	Menampilkna 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	Menampilka 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.	dv	Untuk melihat summary ukuran pemakaian volume untuk setiap folder atau file yang ada dalam sistem
14.	free	Unutk manampilkan informasi pengguna memori(RAM dan swap)
15.	pstree	Menampilkan semua proses pada sistem dalam bentuk hirarki/parent