

NAMA = PUTRI SIWI UTAMI

KELAS = D

NIM = L200180146

# MODUL KE 5

```

File Edit View Terminal Tabs Help
kayon-pc23@kayon-pc23: ~/Desktop
[sudo] password for kayon-pc23:
root@kayon-pc23: /home/kayon-pc23/Desktop# echo halo dunia
halo dunia
root@kayon-pc23: /home/kayon-pc23/Desktop# hostname
kayon-pc23
root@kayon-pc23: /home/kayon-pc23/Desktop# arch
x86_64
root@kayon-pc23: /home/kayon-pc23/Desktop# 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 x86_64 GNU/Linux
root@kayon-pc23: /home/kayon-pc23/Desktop# dmesg
0.000000 [0.000000] microcode updated early to revision 0x27, date = 2019-02-26
0.000000 [0.000000] Linux version 5.0.0-31-generic (builddlgw01-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 [0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.0.0-31-generic root=UUID=d4149e34-e276-4ae9-adca-0a7167815f15 ro quiet splash vt.handoff=1
0.000000 [0.000000] KERNEL supported cpus:
0.000000 [0.000000] Intel GenuineIntel
0.000000 [0.000000] AMD AuthenticAMD
0.000000 [0.000000] Hygon HygonGenuine
0.000000 [0.000000] Centaur CentaurHauls
0.000000 [0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
0.000000 [0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
0.000000 [0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
0.000000 [0.000000] x86/fpu: xstate offset[2]: 576, xstate_sizes[2]: 256
0.000000 [0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'standard' format.
0.000000 [0.000000] BIOS-provided physical RAM map:
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000000-0x0000000000000d7fff] usable
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000d8000-0x0000000000000e9ffff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000ea000-0x0000000000000fffff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x000000000000100000-0x0000000000000cb9ffff] usable
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000cb90000-0x0000000000000cba4fff] ACPI NVS
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000cb0a5000-0x0000000000000cb45fff] usable
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000cb46000-0x0000000000000cb920fff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000cb920000-0x0000000000000dd7c7fff] usable
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000dd7c8000-0x0000000000000dd9d0fff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000dd9d1000-0x0000000000000dd9e9fff] ACPI data
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000dd9ea000-0x0000000000000dddf26fff] ACPI NVS
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000dddf27000-0x0000000000000defc7ffff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000defc8000-0x0000000000000defcfffff] usable
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000defc90000-0x0000000000000defbfffff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000defc90000-0x0000000000000defc0fffff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000defc00000-0x0000000000000defc03ffff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000defc03000-0x0000000000000defd1fffff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000defd10000-0x0000000000000defd13fffff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000defd13000-0x0000000000000defd10fffff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000defd100000-0x0000000000000defd1fffff] reserved
0.000000 [0.000000] BIOS-e820: [mem 0x0000000000000defd1fffff-0x0000000000000defd1fffff] usable

```

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

```
File Edit View Terminal Tabs Help
```

```
cer"  
[0.98625] audit: type=1400 audit(1570666881.474:10): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/lib/connman/scripts/dhclient-script" pid=725 comm="apparmor_  
parser"  
[0.115817] audit: type=1400 audit(1570666881.494:11): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-xpdfimport" pid=733 comm="apparmor_parser"  
[0.161965] Generic PHY phy0: phy0 attached PHY driver [Generic PHY] (miibus:phy_addr=0169-300100, irq=IGNORE)  
[0.451478] vti0: ADDRCONF(NETDEV_UP) vti0: Link is Down  
[0.505725] vti0: ADDRCONF(NETDEV_CHANGE) vti0: Link is Up - 1Gbps/Full - flow control off  
[0.505733] vti0: ADDRCONF(NETDEV_CHANGE) enp3s0: link becomes ready  
[0.738114] resource sanity check: requesting [mem 0x000c0000-0x000fffff], which spans more than PCI Bus 0000:00 [mem 0x000d0000-0x000d3fff window]  
[0.738224] caller os_map_kernel_space.part.12+0x74/0x90 [nvidia] mapping multiple BARs  
[0.765798] xrtia:reset: WARNING: GPU:0: Unable to read EDID for display device DVI-I-0  
[0.766107] xrtia:reset: WARNING: GPU:0: Unable to read EDID for display device DVI-I-0  
[0.766345] xrtia:reset: WARNING: GPU:0: Unable to read EDID for display device DVI-I-0  
[0.766583] xrtia:reset: WARNING: GPU:0: Unable to read EDID for display device DVI-I-0  
[0.818812] xrtia:reset: WARNING: GPU:0: Unable to read EDID for display device DVI-I-0  
[0.852788] xrtia:reset: WARNING: GPU:0: Unable to read EDID for display device DVI-I-0  
[0.855577] xrtia:reset: WARNING: GPU:0: Unable to read EDID for display device DVI-I-0  
root@kayon-pc23:/home/kayon-pc23/Desktop# q  
Command 'q' not found, but can be installed with:  
  
snap install q # version 1.6.3-1, or  
apt install python-q-text-as-data  
apt install python3-q-text-as-data  
  
see 'snap info q' for additional versions.  
  
root@kayon-pc23:/home/kayon-pc23/Desktop# uptime  
07:31:46 up 10 min, 1 user, load average: 0.14, 0.10, 0.19  
root@kayon-pc23:/home/kayon-pc23/Desktop# whoami  
root  
root@kayon-pc23:/home/kayon-pc23/Desktop# who  
kayon-pc23 tty7 2019-10-10 07:21 (:0)  
root@kayon-pc23:/home/kayon-pc23/Desktop# id  
uid=0(root) gid=0(root) groups=0(root)  
root@kayon-pc23:/home/kayon-pc23/Desktop# last  
kayon-pc tty7 :0 Thu Oct 10 07:21 gone - no logout  
reboot system boot 5.0.0-31-generic Thu Oct 10 07:21 still running  
kayon-pc tty7 :0 Wed Oct 9 17:34 - 17:34 (00:00)  
kayon-pc tty7 :0 Wed Oct 9 23:34 - 17:33 (-6:00)  
reboot system boot 5.0.0-31-generic Wed Oct 9 23:33 - 17:34 (-5:59)  
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)  
  
tmp begins Tue Oct 8 15:36:54 2019  
root@kayon-pc23:/home/kayon-pc23/Desktop# finger
```

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

kayon-pc23 tty7          2019-10-10 07:21 (:0)
root@kayon-pc23:/home/kayon-pc23/Desktop# id
uid=0(root) gid=0(root) groups=0(root)
root@kayon-pc23:/home/kayon-pc23/Desktop# last
kayon-pc tty7          :0          Thu Oct 10 07:21   gone - no logout
reboot system boot    5.0.0-31-generic Thu Oct 10 07:21   still running
kayon-pc tty7          :0          Wed Oct 9 17:34 - 17:34 (00:00)
kayon-pc tty7          :0          Wed Oct 9 23:34 - 17:33 (-6:00)
reboot system boot    5.0.0-31-generic Wed Oct 9 23:33 - 17:34 (-5:59)
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)

utmp begins Tue Oct 8 15:36:54 2019
root@kayon-pc23:/home/kayon-pc23/Desktop# finger

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

apt install finger

root@kayon-pc23:/home/kayon-pc23/Desktop# w
 07:32:17 up 11 min,  1 user,  load average: 0.08, 0.16, 0.18
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
kayon-pc tty7      :0            07:21   10:59   9.07s   0.01s  /bin/sh /etc/xdg/xfce4.xinitrc -- /etc/X11/xinit/xserverrc
root@kayon-pc23:/home/kayon-pc23/Desktop# top

top - 07:34:10 up 13 min,  1 user,  load average: 0.01, 0.11, 0.16
tasks: 181 total,   1 running, 133 sleeping,   0 stopped,   0 zombie
Cpu(s):  0.8 us,  0.2 sy,  0.0 ni, 99.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
Mem Mem : 8103648 total, 6848676 free, 418464 used, 836508 buff/cache
Mem Swap: 947880 total, 947880 free,   0 used, 7409552 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM     TIME+ COMMAND
 969 root        20   0 351508 60968 41492 S   2.3   0.8   0:11.36 Xorg
2687 kayon-pc  20   0 583760 39344 29168 S   1.7   0.5   0:01.89 xfce4-terminal
1315 kayon-pc 20   0 191392 22180 18012 S   0.3   0.3   0:00.79 xfce4
   1 root        20   0 225360 9100  6632 S   0.0   0.1   0:01.16 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   0:00.22 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 I   0.0   0.0   0:00.05 kworker/0:1-eve
```

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

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@kayon-pc23:/home/kayon-pc23/Desktop
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@kayon-pc23:/home/kayon-pc23/Desktop
File Edit View Terminal Tabs Help
2687 kayon-pc23 20 0 583760 39344 29168 S 0.7 0.5 0:02.44 xfce4-terminal
990 root -51 0 0 0 0 S 0.3 0.0 0:00.89 irq/28-nvidia
992 root 20 0 0 0 0 S 0.3 0.0 0:00.95 nv-queue
1319 kayon-pc23 20 0 407892 29024 22712 S 0.3 0.4 0:00.64 xfce4-panel
1 root 20 0 225360 9100 6632 S 0.0 0.1 0:01.17 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root 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 0:00.23 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 I 0.0 0.0 0:00.06 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 0:00.00 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
25 root 20 0 0 0 0 I 0.0 0.0 0:00.04 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 cpuhp/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
36 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kauditd
37 root 20 0 0 0 0 S 0.0 0.0 0:00.00 khungtaskd
root@kayon-pc23:/home/kayon-pc23/Desktop# echo $SHELL
/bin/bash
root@kayon-pc23:/home/kayon-pc23/Desktop# echo {(con,pre)}{(sent,fer)}{(s,ed)}
consents consented confers conferred presents presented prefers preferred
root@kayon-pc23:/home/kayon-pc23/Desktop# man ls
root@kayon-pc23:/home/kayon-pc23/Desktop# man ls
root@kayon-pc23:/home/kayon-pc23/Desktop# man who
root@kayon-pc23:/home/kayon-pc23/Desktop#
```

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

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 0:00.06 kworker/0:1-eve
14 root 20 0 0 0 0 0 0 0 0:00.00 cpulp/0
15 root 20 0 0 0 0 0 0 0 0:00.00 cpulp/1
16 root -51 0 0 0 0 0 0 0 0:00.00 idle_inject/1
17 root rt 0 0 0 0 0 0 0 0:00.00 migration/1
18 root 20 0 0 0 0 0 0 0 0:00.00 ksoftirqd/1
20 root 0 -20 0 0 0 0 0 0 0:00.00 kworker/1:0H-kb
21 root 20 0 0 0 0 0 0 0 0:00.00 cpulp/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 0:00.04 kworker/2:0-mm
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 cpulp/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
37 root 20 0 0 0 0 0 0 0 0:00.00 khungtaskd

root@kayon-pc23:/home/kayon-pc23/Desktop# echo $SHELL
/bin/bash
root@kayon-pc23:/home/kayon-pc23/Desktop# echo {con,pre}{sent,fer}{s,e,d}
consents consented confers conferred presents presented prefers preferred
root@kayon-pc23:/home/kayon-pc23/Desktop# man ls
root@kayon-pc23:/home/kayon-pc23/Desktop# man ls
root@kayon-pc23:/home/kayon-pc23/Desktop# man who
root@kayon-pc23:/home/kayon-pc23/Desktop# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayon-pc23:/home/kayon-pc23/Desktop# last
kayon-pc tty7          :0          Thu Oct 10 07:21   gone - no logout
reboot system boot    5.0.0-31-generic Thu Oct 10 07:21   still running
kayon-pc tty7          :0          Wed Oct 9 17:34 - 17:34 (00:00)
kayon-pc tty7          :0          Wed Oct 9 23:34 - 17:33 (-6:00)
reboot system boot    5.0.0-31-generic Wed Oct 9 23:33 - 17:34 (-5:59)
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)

ntp begins Tue Oct 8 15:36:54 2019
root@kayon-pc23:/home/kayon-pc23/Desktop#
```

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

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 0:00.06 kworker/0:1-eve
14 root 20 0 0 0 0 0 0 0 0:00.00 cpulp/0
15 root 20 0 0 0 0 0 0 0 0:00.00 cpulp/1
16 root -51 0 0 0 0 0 0 0 0:00.00 idle_inject/1
17 root rt 0 0 0 0 0 0 0 0:00.00 migration/1
18 root 20 0 0 0 0 0 0 0 0:00.00 ksoftirqd/1
20 root 0 -20 0 0 0 0 0 0 0:00.00 kworker/1:0H-kb
21 root 20 0 0 0 0 0 0 0 0:00.00 cpulp/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 0:00.04 kworker/2:0-mm
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 cpulp/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
37 root 20 0 0 0 0 0 0 0 0:00.00 khungtaskd

root@kayon-pc23:/home/kayon-pc23/Desktop# echo $SHELL
/bin/bash
root@kayon-pc23:/home/kayon-pc23/Desktop# echo {con,pre}{sent,fer}{s,e,d}
consents consented confers conferred presents presented prefers preferred
root@kayon-pc23:/home/kayon-pc23/Desktop# man ls
root@kayon-pc23:/home/kayon-pc23/Desktop# man ls
root@kayon-pc23:/home/kayon-pc23/Desktop# man who
root@kayon-pc23:/home/kayon-pc23/Desktop# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayon-pc23:/home/kayon-pc23/Desktop# last
kayon-pc tty7          :0          Thu Oct 10 07:21   gone - no logout
reboot system boot    5.0.0-31-generic Thu Oct 10 07:21   still running
kayon-pc tty7          :0          Wed Oct 9 17:34 - 17:34 (00:00)
kayon-pc tty7          :0          Wed Oct 9 23:34 - 17:33 (-6:00)
reboot system boot    5.0.0-31-generic Wed Oct 9 23:33 - 17:34 (-5:59)
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)

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

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

File Edit View Terminal Tabs Help

kayon-pc tty7      10      Wed Oct  8 23:34 - 17:33 (-6:00)
reboot system boot 5.0.0-31-generic Wed Oct  8 23:33 - 17:34 (-5:59)
kayon-pc tty7      10      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)

utmp begins Tue Oct  8 15:36:54 2019
root@kayon-pc23:/home/kayon-pc23/Desktop# fdisk -l
fdisk: invalid option -- 'l'
Try 'fdisk --help' for more information.
root@kayon-pc23:/home/kayon-pc23/Desktop# users
kayon-pc23
root@kayon-pc23:/home/kayon-pc23/Desktop# 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-0a7167815f15 /      ext4    errors=remount-ro 0    1
#swapfile                                none    swap    sw      0    0
root@kayon-pc23:/home/kayon-pc23/Desktop# 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          1          1          1          1
2 3 4 5 6 7 8      6 7 8 9 10 11 12  5 6 7 8 9 10 11
9 10 11 12 13 14 15 13 14 15 16 17 18 19 12 13 14 15 16 17 18
16 17 18 19 20 21 22 20 21 22 23 24 25 26 19 20 21 22 23 24 25
23 24 25 26 27 28 29 27 28 29      26 27 28 29 30 31
30 31

      April      Mei      Juni
Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1          1          1          1          1          1
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          1          1          1          1
2 3 4 5 6 7 8      6 7 8 9 10 11 12  3 4 5 6 7 8 9
30 31

Terminal - root@kayon-pc23: ...
```

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

File Edit View Terminal Tabs Help

Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa  Mi Se Sa Ra Ka Ju Sa
1          1          1          1          1          1
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
12 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/Desktop# cal 9 1752
      September 1752
Mi Se Sa Ra Ka Ju Sa
1          1          1          1          1
17 18 19 20 21 22 23
24 25 26 27 28 29 30

root@kayon-pc23:/home/kayon-pc23/Desktop# cal 10 2007
      Oktober 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@kayon-pc23:/home/kayon-pc23/Desktop# bc -l
bc: invalid option -- 'l'
usage: bc [options] [file ...]
-h --help      print this usage and exit
-i --interactive  force interactive mode
-l --mathlib    use the predefined math routines
-q --quiet      don't print initial banner
-s --standard   non-standard bc constructs are errors
-w --warn       warn about non-standard bc constructs
-v --version    print version information and exit
root@kayon-pc23:/home/kayon-pc23/Desktop#
```





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

File Edit View Terminal Tabs Help

root@kayon-pc23: /home/kayon-pc23# cd Desktop/
root@kayon-pc23: /home/kayon-pc23/Desktop# lsmod
Module                  Size  Used by
intel_rapl               24576  0
x86_pkg_temp_thermal    20480  0
intel_powerclamp         20480  0
coretemp                20480  0
kvm_intel               241664  0
kvm                     830784  1 kvm_intel
irqbypass               16384  1 kvm
snd_hda_codec_hdmi       53248  1
snd_hda_codec_realtek    114688  1
snd_hda_codec_generic    77824  1 snd_hda_codec_realtek
ledtrig_audio           16384  2 snd_hda_codec_generic,snd_hda_codec_realtek
joydev                  28672  0
input_leds              16384  0
crct10bit_pclmul         16384  1
rc2_pclmul              16384  0
ghash_clmulni_intel     16384  0
snd_hda_intel            49152  2
aesni_intel             372736  0
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
aes_x86_64              20480  1 aesni_intel
snd_hwdep               20480  1 snd_hda_codec
crypto_simd             16384  1 aesni_intel
crypto                  24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel
snd_pcm                 102400  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core
snd_seq_midi            20480  0
blue_helper             16384  1 aesni_intel
snd_seq_midi_event      16384  1 snd_seq_midi
eeepc_wmi               16384  0
snd_rawmidi             36864  1 snd_seq_midi
snd_seq                 69632  2 snd_seq_midi,snd_seq_midi_event
wmi_bmf                 16384  0
asus_wmi                28672  1 eeepc_wmi
snd_seq_device          16384  3 snd_seq,snd_seq_midi,snd_rawmidi
sparse_keymap           16384  1 asus_wmi
intel_cstate            20480  0
snd_timer               36864  2 snd_seq,snd_pcm
intel_rapl_perf         16384  0
snd                     86016  15 snd_hda_codec_generic,snd_seq,snd_seq_device,snd_hda_codec_hdmi,snd_hwdep,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek,snd_timer,snd_pcm,snd_rawmidi
soundcore               16384  1 snd
mei_me                  40960  0
mei                     106496  1 mei_me
lpc_ich                 24576  0
```

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

File Edit View Terminal Tabs Help

mei                  28672  2 asus_wmi,wmi_bmf
video               49152  1 asus_wmi
root@kayon-pc23: /home/kayon-pc23/Desktop# ps -aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.1 225360 9104 ?        Ss   07:21   0:01 /sbin/init splash
root         2  0.0  0.0      0  0 ?        S    07:21   0:00 [kthreadd]
root         3  0.0  0.0      0  0 ?        Ic   07:21   0:00 [rcu_gp]
root         4  0.0  0.0      0  0 ?        Ic   07:21   0:00 [rcu_par_gp]
root         6  0.0  0.0      0  0 ?        Ic   07:21   0:00 [kworker/0:0H-kb]
root         8  0.0  0.0      0  0 ?        Ic   07:21   0:00 [mm_percpu_wq]
root         9  0.0  0.0      0  0 ?        S    07:21   0:00 [ksoftirqd/0]
root        10  0.0  0.0      0  0 ?        I    07:21   0:00 [rcu_sched]
root        11  0.0  0.0      0  0 ?        S    07:21   0:00 [migration/0]
root        12  0.0  0.0      0  0 ?        S    07:21   0:00 [idle_inject/0]
root        13  0.0  0.0      0  0 ?        I    07:21   0:00 [kworker/0:1-eve]
root        14  0.0  0.0      0  0 ?        S    07:21   0:00 [cpuhp/0]
root        15  0.0  0.0      0  0 ?        S    07:21   0:00 [cpuhp/1]
root        16  0.0  0.0      0  0 ?        S    07:21   0:00 [idle_inject/1]
root        17  0.0  0.0      0  0 ?        S    07:21   0:00 [migration/1]
root        18  0.0  0.0      0  0 ?        S    07:21   0:00 [ksoftirqd/1]
root        20  0.0  0.0      0  0 ?        Ic   07:21   0:00 [kworker/1:0H-kb]
root        21  0.0  0.0      0  0 ?        S    07:21   0:00 [cpuhp/2]
root        22  0.0  0.0      0  0 ?        S    07:21   0:00 [idle_inject/2]
root        23  0.0  0.0      0  0 ?        S    07:21   0:00 [migration/2]
root        24  0.0  0.0      0  0 ?        S    07:21   0:00 [ksoftirqd/2]
root        25  0.0  0.0      0  0 ?        I    07:21   0:00 [kworker/2:0-vm_]
root        26  0.0  0.0      0  0 ?        Ic   07:21   0:00 [kworker/2:0H-kb]
root        27  0.0  0.0      0  0 ?        S    07:21   0:00 [cpuhp/3]
root        28  0.0  0.0      0  0 ?        S    07:21   0:00 [idle_inject/3]
root        29  0.0  0.0      0  0 ?        S    07:21   0:00 [migration/3]
root        30  0.0  0.0      0  0 ?        S    07:21   0:00 [ksoftirqd/3]
root        32  0.0  0.0      0  0 ?        Ic   07:21   0:00 [kworker/3:0H-kb]
root        33  0.0  0.0      0  0 ?        S    07:21   0:00 [kdevtmpfs]
root        34  0.0  0.0      0  0 ?        Ic   07:21   0:00 [netns]
root        35  0.0  0.0      0  0 ?        S    07:21   0:00 [rcu_tasks_kthre]
root        36  0.0  0.0      0  0 ?        S    07:21   0:00 [kauditd]
root        37  0.0  0.0      0  0 ?        S    07:21   0:00 [khungtaskd]
root        38  0.0  0.0      0  0 ?        S    07:21   0:00 [oom_reaper]
root        39  0.0  0.0      0  0 ?        Ic   07:21   0:00 [writeback]
root        40  0.0  0.0      0  0 ?        S    07:21   0:00 [kcompactd0]
root        41  0.0  0.0      0  0 ?        SN   07:21   0:00 [ksmd]
root        42  0.0  0.0      0  0 ?        SN   07:21   0:00 [khugepaged]
root        43  0.0  0.0      0  0 ?        Ic   07:21   0:00 [crypto]
root        44  0.0  0.0      0  0 ?        Ic   07:21   0:00 [kintegrityd]
root        45  0.0  0.0      0  0 ?        Ic   07:21   0:00 [blklockd]
root        46  0.0  0.0      0  0 ?        Ic   07:21   0:00 [tmm dev wq]
```



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

File Edit View Terminal Tabs Help

kayon-pr 2852 0.0 0.0 144816 6204 ? S? 07:37 0:00 /usr/lib/libreoffice/program/oosplash --writer
kayon-pr 2869 0.0 2.7 1233616 226844 ? S? 07:37 0:13 /usr/lib/libreoffice/program/soffice.bin --writer --splash-pipe=5
root 3368 0.0 0.0 0 0 ? I 07:57 0:00 [kworker/u6:1-ew]
root 3395 0.0 0.0 0 0 ? I 08:01 0:00 [kworker/1:1-cgr]
root 3396 0.0 0.0 0 0 ? I 08:02 0:00 [kworker/u6:2]
root 3419 0.0 0.0 47236 3828 pts/0 R+ 08:03 0:00 ps -aux
root@kayon-pc23: /home/kayon-pc23/Desktop# 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/Desktop# free
             total        used        free      shared  buff/cache   available
Mem:      8103648    557272     6518152       10340     1028224     7267248
Swap:      947080           0       947080
root@kayon-pc23: /home/kayon-pc23/Desktop# 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        : 798.221
cache size     : 6144 KB
physical id    : 0
siblings       : 4
core id        : 0
cpu cores      : 4
apicid         : 0
initial apicid : 0
cpu            : yes
cpu_exception  : yes
```

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

File Edit View Terminal Tabs Help

cpu_exception : yes
cpu_exception : yes
cpu level      : 13
cpu           : 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
nops bts rep_good nopl xtopology nonstop tsc cpuid aperfperf pni pclmulqdq dtes64 monitor ds_cpl vnx ssm est tm2 ssse3 sbdq fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadli
ne_timer aes xsave avx f16c rdrand lahf_lm abm cquid fault ept invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vmx 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 swapgs
bogomips       : 6584.97
clflush size   : 64
cache alignme  : 64
address sizes  : 39 bits physical, 48 bits virtual
power managem  :

root@kayon-pc23: /home/kayon-pc23/Desktop# finger root
Command 'finger' not found, but can be installed with:

apt install finger

root@kayon-pc23: /home/kayon-pc23/Desktop# apt install finger
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  finger
0 upgraded, 1 newly installed, 0 to remove and 17 not upgraded.
Need to get 15.6 kB of archives.
After this operation, 48.1 kB of additional disk space will be used.
Get:1 http://id.archive.ubuntu.com/ubuntu bionic/universe amd64 finger amd64 0.17-15.1 [15.6 kB]
Fetched 15.6 kB in 6s (2.641 B/s)
Selecting previously unselected package finger.
(Reading database ... 306035 files and directories currently installed.)
Preparing to unpack .../finger_0.17-15.1_amd64.deb ...
Unpacking finger (0.17-15.1) ...
Setting up finger (0.17-15.1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
root@kayon-pc23: /home/kayon-pc23/Desktop# finger root
Login: root                                     Name: root
Directory: /root                               Shell: /bin/bash
Never logged in.
No mail.
No Plan.
root@kayon-pc23: /home/kayon-pc23/Desktop#
```

```
Terminal - root@kayon-pc23: ~  
File Edit View Terminal Tabs Help  
after this operation, 48,1 kB of additional disk space will be used.  
Get:1 http://id.archive.ubuntu.com/ubuntu bionic/universe amd64 finger amd64 0.17-15.1 [15,6 kB]  
Fetched 15,6 kB in 6s (2,641 B/s)  
Selecting previously unselected package finger.  
(Reading database ... 306035 files and directories currently installed.)  
Preparing to unpack .../finger_0.17-15.1_amd64.deb ...  
Unpacking finger (0.17-15.1) ...  
Setting up finger (0.17-15.1) ...  
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...  
root@kayon-pc23:/home/kayon-pc23/Desktop# finger root  
login: root Name: root  
Directory: /root Shell: /bin/bash  
Never logged in.  
No mail.  
No Plan.  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls -l  
root@kayon-pc23:/home/kayon-pc23/Desktop# cd  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls  
total 0  
root@kayon-pc23:/home/kayon-pc23/Desktop# cd  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls -l  
total 0  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls -l/home  
ls: invalid option -- '/'  
Try 'ls --help' for more information.  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls -l /home  
total 4  
drwxr-xr-x 17 kayon-pc23 kayon-pc23 4096 Okt 10 07:21 kayon-pc23  
root@kayon-pc23:/home/kayon-pc23/Desktop# whatis ls  
ls (1) - list directory contents  
root@kayon-pc23:/home/kayon-pc23/Desktop# whatis mkdir  
mkdir (1) - make directories  
mkdir (2) - create a directory  
root@kayon-pc23:/home/kayon-pc23/Desktop# mkdir informatika  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls  
informatika  
root@kayon-pc23:/home/kayon-pc23/Desktop# rmdir informatika  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls  
root@kayon-pc23:/home/kayon-pc23/Desktop# touch rpl.txt  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls  
rpl.txt  
root@kayon-pc23:/home/kayon-pc23/Desktop# rm rpl.txt  
root@kayon-pc23:/home/kayon-pc23/Desktop#
```

```
Terminal - root@kayon-pc23: ~  
File Edit View Terminal Tabs Help  
drwxr-xr-x 17 kayon-pc23 kayon-pc23 4096 Okt 10 07:21 kayon-pc23  
root@kayon-pc23:/home/kayon-pc23/Desktop# whatis ls  
ls (1) - list directory contents  
root@kayon-pc23:/home/kayon-pc23/Desktop# whatis mkdir  
mkdir (1) - make directories  
mkdir (2) - create a directory  
root@kayon-pc23:/home/kayon-pc23/Desktop# mkdir informatika  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls  
informatika  
root@kayon-pc23:/home/kayon-pc23/Desktop# rmdir informatika  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls  
root@kayon-pc23:/home/kayon-pc23/Desktop# touch rpl.txt  
root@kayon-pc23:/home/kayon-pc23/Desktop# ls  
rpl.txt  
root@kayon-pc23:/home/kayon-pc23/Desktop# rm rpl.txt  
root@kayon-pc23:/home/kayon-pc23/Desktop# which mkdir  
/bin/mkdir  
root@kayon-pc23:/home/kayon-pc23/Desktop# whereis ls  
ls: /bin/ls /usr/share/man/man1/ls.1.gz  
root@kayon-pc23:/home/kayon-pc23/Desktop# df  
Filesystem      1K-blocks    Used Available Use% Mounted on  
udev            4098332         0   4098332    0% /dev  
tmpfs           810368      1348    809020    1% /run  
udev/sda4       20027216  8638884  10347948  46% /  
tmpfs           4051824         0   4051824    0% /dev/shm  
tmpfs           5120         4     5116    1% /run/lock  
tmpfs           4051824         0   4051824    0% /sys/fs/cgroup  
tmpfs           810368      24     810340    1% /run/user/1000  
dev/sda2        204799996 52565744 152234252  26% /media/kayon-pc23/3688F526B8F4E571  
udev/sda3        262592508 3055524 259536984    2% /media/kayon-pc23/84188AF1188AE192  
root@kayon-pc23:/home/kayon-pc23/Desktop# du  
0      ./dbus/session-bus  
12     ./dbus  
0      ./cache/dconf  
44     ./cache/gstreamer-1.0  
36     ./cache  
12     ./local/share/nano  
12     ./local/share  
16     ./local  
0      ./config/gtk-2.0  
4      ./config/gtk-3.0  
16     ./config  
0      ./ssh  
1036   .  
root@kayon-pc23:/home/kayon-pc23/Desktop#
```



w 'enter'	= Informasi pengguna saat ini	
top 'enter'	(tekan 'q' untuk keluar)	Informasi list proses yg berjalan pada sistem
echo \$SHELL 'enter'	tulis lokasi peng-execute terminal saat ini	
echo {con,pre}{sent,fer}{s,ed} 'enter'	Scrabble	world (tulis kombinasi sl dart)
man ls 'enter'	(tekan 'q' untuk keluar)	
man who 'enter'	(tekan 'q' untuk keluar)	
who can tell me about linux 'enter'	→ ini apa perintah who tidak ps mengetahui operand "me"	
last 'enter'	list history system	
clear 'enter'	"/ membersihkan jendela console	
fdisk -l 'enter'	fdisk (connected storage) -l(list)	
users 'enter'	→ user saat ini anda login	
cat /etc/fstab 'enter'	(ambil isi) (lokasi file)	
cal 2000 'enter'	call (mengambil) 2000 (tahun)	menampilkan tanggal
cal 9 1752 'enter'	menampilkan tanggal di tahun yg dipanggil	
cal 10 2007 'enter'	menampilkan tanggal bulan 10 tahun 2007	
bc -l 'enter'	(tulis "quit" untuk mengkahiri) Basic kalkulator	
echo 5+4   bc -l 'enter'	tulis menggunakan bc = 4+5 = 9	
yes please 'enter'	(tekan 'ctrl-c' untuk keluar)	menampilkan tulisan "yes please" hingga dihentikan
pwd 'enter'	Nama direktori yg sedang berjalan	
history 'enter'	History yg dilakukan	
tail -f /var/log/message 'enter'	(tekan ctrl-c untuk keluar)	Membuka file
lsmod 'enter'	menampilkan semua module yg di komputer	
ps -aux 'enter'		
lspci 'enter'	ngelist file Pci	
free 'enter'	space yg tersisa	
cat /proc/cpuinfo 'enter'	Keluarkan informasi di file	proc/cpuinfo
finger root 'enter'		
reboot 'enter'	merestart komputer, namun harus sebagai root	



halt 'enter' 4/ membuat komputer mamun harus  
shg root

5. Catat versi kernel yang digunakan saat itu dengan menggunakan perintah "uname -a" kemudian tekan 'enter'.

### Tugas

1. Jelaskan distro linux yang ada saat ini (minimal 5).
2. Jelaskan 20 perintah yang sama di antara masing-masing distro.
3. Jelaskan maksud perintah 'init 0', 'init 1', 'init 2', 'init 3', 'init 4', 'init 5', dan 'init 6'.
4. Jelaskan maksud dari perintah 'quota'

ls → 4/ melihat /list file & directory

ls -l → 4/ melihat isi folder & jumlah foldernya

ls -l/home → 4/ melihat jumlah isi folder pd home

whatis ls → saat kita ingin mengetahui suatu perintah sesuai kata kunci

whatis mkdir → membuat direktori

mkdir informatika → membuat direktori Informatika

rmdir informatika → menghapus — " —

touch rpl.txt → mengubah times tamp file

rm rpl.txt → menghapus file rpl.txt

which mkdir → lokasi membuat mkdir

whereis ls → lokasi ls

df → melaporkan penggunaan ruang di disk

du → mengestimasi penggunaan data

tree → Space yg terisi

ls tree → pohon direktori