

NAMA:ANGGA PRATAMA
NIM:L200180109

PRAKTIKUM SISTEM OPERSI MODUL 5 KELAS C LATIHAN

```
Terminal - root@kayon-pc3: /home/kayon-pc3
File Edit View Terminal Tabs Help
root@kayon-pc3:/home/kayon-pc3# uptime
16:58:26 up 25 min, 1 user, load average: 0,44, 0,45, 0,66
root@kayon-pc3:/home/kayon-pc3# whoami
root
root@kayon-pc3:/home/kayon-pc3# who
kayon-pc3 tty7      2019-10-09 23:34 (:0)
root@kayon-pc3:/home/kayon-pc3# id
uid=0(root) gid=0(root) groups=0(root)
root@kayon-pc3:/home/kayon-pc3# last
kayon-pc tty7      :0          Wed Oct 9 23:34   gone - no logout
reboot system boot 4.18.0-22-generi Wed Oct 9 23:33   still running
kayon-pc tty7      :0          Tue Oct 8 16:15 - 17:41 (01:25)
reboot system boot 4.18.0-22-generi Tue Oct 8 16:15 - 17:41 (01:26)
kayon-pc tty7      :0          Tue Oct 8 15:15 - 15:35 (00:19)
reboot system boot 4.18.0-22-generi Tue Oct 8 15:15 - 15:35 (00:20)
kayon-pc tty7      :0          Tue Oct 8 15:06 - 15:10 (00:04)
reboot system boot 4.18.0-22-generi Tue Oct 8 15:05 - 15:14 (00:08)
kayon-pc tty7      :0          Tue Oct 8 14:55 - 15:05 (00:09)
reboot system boot 4.18.0-22-generi Tue Oct 8 14:55 - 15:05 (00:09)

wtmp begins Tue Oct 8 14:48:12 2019
root@kayon-pc3:/home/kayon-pc3# finger
Login      Name      Tty      Idle Login Time   Office   Office Phone
kayon-pc3 kayon-pc3 tty7      Oct 9 23:34 (:0)
root@kayon-pc3:/home/kayon-pc3# w
16:58:35 up 25 min, 1 user, load average: 0,45, 0,46, 0,66
USER      TTY      FROM      LOGIN@   IDLE   JCPU   PCPU WHAT
kayon-pc tty7      :0          23:34    ?    37.19s  0.01s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
root@kayon-pc3:/home/kayon-pc3#
```

```
Terminal - root@kayon-pc3: /home/kayon-pc3
File Edit View Terminal Tabs Help
top - 17:01:20 up 28 min, 1 user, load average: 0.11, 0.31, 0.57
Tasks: 208 total, 1 running, 154 sleeping, 0 stopped, 0 zombie
%Cpu(s): 5.5 us, 0.6 sy, 0.0 ni, 93.6 id, 0.0 wa, 0.0 hi, 0.3 si, 0.0 st
KiB Mem : 8106416 total, 2841520 free, 1285580 used, 3979316 buff/cache
KiB Swap: 947080 total, 947080 free, 0 used, 6418104 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR     S  %CPU  %MEM     TIME+ COMMAND
17994 kayon-p+  20   0 2785252 257072 127656 S   10.3   3.2   1:34.00 Web Content
 877 root        20   0 383488 78604 56444 S    8.0   1.0   0:39.13 Xorg
10826 kayon-p+  20   0 385628 28024 22344 S    2.7   0.3   0:00.08 xfce4-screensho
 8024 kayon-p+  20   0 588264 41260 30528 S    2.0   0.5   0:04.39 xfce4-terminal
 6237 kayon-p+  20   0 3178992 295456 145196 S    1.0   3.6   0:49.43 firefox
1713 kayon-p+  20   0 403240 30264 23232 S    0.3   0.4   0:02.63 xfwm4
1717 kayon-p+  20   0 420260 30540 23860 S    0.3   0.4   0:01.28 xfce4-panel
 9310 kayon-p+  20   0 2718852 216856 125976 S    0.3   2.7   0:12.76 Web Content
10825 root        20   0 51780 4176 3416 R    0.3   0.1   0:00.04 top
   1 root        20   0 225516 9560 6980 S    0.0   0.1   0:03.20 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   0:00.14 ksoftirqd/0
  10 root        20   0 0 0 0 I    0.0   0.0   0:00.76 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   0:00.01 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   0:00.01 migration/1
  18 root        20   0 0 0 0 S    0.0   0.0   0:00.14 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        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   0:00.01 migration/2
  24 root        20   0 0 0 0 S    0.0   0.0   0:00.12 ksoftirqd/2
  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        rt  0 0 0 0 S    0.0   0.0   0:00.00 watchdog/3
  29 root        rt  0 0 0 0 S    0.0   0.0   0:00.01 migration/3
  30 root        20   0 0 0 0 S    0.0   0.0   0:00.12 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
```

```
Terminal - root@kayon-pc3: /home/kayon-pc3
File Edit View Terminal Tabs Help
root@kayon-pc3:/home/kayon-pc3# echo $SHELL
/bin/bash
root@kayon-pc3:/home/kayon-pc3# echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
root@kayon-pc3:/home/kayon-pc3#
```

```
Terminal - root@kayon-pc3: /home/kayon-pc3
File Edit View Terminal Tabs Help
LS(1) User Commands LS(1)
NAME
ls - list directory contents
SYNOPSIS
ls [OPTION]... [FILE]...
DESCRIPTION
List information about the FILES (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.
Mandatory arguments to long options are mandatory for short options too.
-a, --all
do not ignore entries starting with .
-A, --almost-all
do not list implied . and ..
--author
with -l, print the author of each file
-b, --escape
print C-style escapes for nongraphic characters
--block-size=SIZE
scale sizes by SIZE before printing them; e.g., '--block-size=M' prints sizes in units of 1,048,576 bytes; see SIZE format below
-B, --ignore-backups
do not list implied entries ending with ~
-c with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first
-C list entries by columns
--color[=WHEN]
colorize the output; WHEN can be 'always' (default if omitted), 'auto', or 'never'; more info below
-d, --directory
list directories themselves, not their contents
-D, --dired
generate output designed for Emacs' dired mode
Manual page ls(1) line 1 (press h for help or q to quit)
```

```
Terminal - root@kayon-pc3: /home/kayon-pc3
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-pc3: /home/kayon-pc3

root@kayon-pc3:/home/kayon-pc3# who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
root@kayon-pc3:/home/kayon-pc3# last
kayon-pc tty7          :0                Wed Oct  9 23:34   gone - no logout
reboot system boot    4.18.0-22-generi Wed Oct  9 23:33   still running
kayon-pc tty7          :0                Tue Oct  8 16:15 - 17:41 (01:25)
reboot system boot    4.18.0-22-generi Tue Oct  8 16:15 - 17:41 (01:26)
kayon-pc tty7          :0                Tue Oct  8 15:15 - 15:35 (00:19)
reboot system boot    4.18.0-22-generi Tue Oct  8 15:15 - 15:35 (00:20)
kayon-pc tty7          :0                Tue Oct  8 15:06 - 15:10 (00:04)
reboot system boot    4.18.0-22-generi Tue Oct  8 15:05 - 15:14 (00:08)
kayon-pc tty7          :0                Tue Oct  8 14:55 - 15:05 (00:09)
reboot system boot    4.18.0-22-generi Tue Oct  8 14:55 - 15:05 (00:09)

wtmp begins Tue Oct  8 14:48:12 2019
root@kayon-pc3:/home/kayon-pc3# 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      204800      199712  100M 7 HPFS/NTFS/exFAT
/dev/sda2          206848    409602047    409395300  195.2G 7 HPFS/NTFS/exFAT
/dev/sda3          409602048    935811071    526209024  250.9G 7 HPFS/NTFS/exFAT
/dev/sda4          935811072    976771071     40960000    19.5G 83 Linux

root@kayon-pc3:/home/kayon-pc3# users
kayon-pc3
root@kayon-pc3:/home/kayon-pc3# 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=3b34dc42-e5c5-4cb3-af44-24c40b35d2ff /      ext4    errors=remount-ro 0      1
/swapfile none     swap     sw           0      0
root@kayon-pc3:/home/kayon-pc3#
```

```
Terminal - root@kayon-pc3: /home/kayon-pc3

/swapfile none swap sw 0 0
root@kayon-pc3:/home/kayon-pc3# clear

root@kayon-pc3:/home/kayon-pc3# cal 2000

      2000
January February March
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
1 1 2 3 4 5 1 2 3 4
2 3 4 5 6 7 8 6 7 8 9 10 11 12 5 6 7 8 9 10 11
9 10 11 12 13 14 15 13 14 15 16 17 18 19 12 13 14 15 16 17 18
16 17 18 19 20 21 22 20 21 22 23 24 25 26 19 20 21 22 23 24 25
23 24 25 26 27 28 29 27 28 29 26 27 28 29 30 31
30 31

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

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

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

root@kayon-pc3:/home/kayon-pc3# cal 9 1752
September 1752
Mi Se Sa Ra Ka Ju Sa
1 2 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help

kayon-pc3@kayon-pc3:~$ cal 10 2007
      Oktober 2007
Mo Se We Th Fr Sa Su
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

kayon-pc3@kayon-pc3:~$ 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

kayon-pc3@kayon-pc3:~$ pwd
/home/kayon-pc3

kayon-pc3@kayon-pc3:~$ history
1  sudo su
2  sudo apt install grub-customizer
3  sudo apt install grub-cus
4  sudo apt install grub-customizer
5  sudo su
6  labrpl
7  sudo su
8  man ls
9  man who
10 who can tell me about linux
11 fdisk -l
12 bc -l
13 lsmod
14 ps -aux
15 lspci
16 free
17 cat /proc/cpuinfo
18 finger root
19 finger
20 top
21 dmesg | more
22 uname -a
23 init 0
24 sudo su
25 ls
26 ls -l
27 ls //home
28 what ls
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help

kayon-pc3@kayon-pc3:~$ lsmod
Module                  Size  Used by
ufs                     77524  0
gmx4                   16384  0
hfsplus                106496  0
hfs                     57344  0
minix                   32768  0
ntfs                   102400  0
msdos                   20480  0
jfs                    108416  0
xfs                   1290240  0
cpuid                  16384  0
input_leds             16384  0
joydev                 24576  0
snd_hda_codec_hdmi     49152  1
nvidia_uvm             815104  0
eeepc_wmi              16384  0
asus_wmi               20672  1 eeepc_wmi
sparse_keymap          16384  1 asus_wmi
wmi_bmof               16384  0
gpio_ich               16384  0
intel_rapl             20480  0
x86_pkg_temp_thermal  16384  0
intel_powerclamp       16384  0
coretemp              16384  0
snd_hda_codec_realtek  106496  1
kvm_intel              208896  0
snd_hda_codec_generic  73728  1 snd_hda_codec_realtek
kvm                    626688  1 kvm_intel
irqbypass             16384  1 kvm
crt10dif_pclmul       16384  0
crc32_pclmul           16384  0
ghash_clmulni_intel    16384  0
pcbc                   16384  0
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
aesni_intel            200704  0
aes_x86_64             20480  1 aesni_intel
crypto_simd            16384  1 aesni_intel
cryptd                 24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel
snd_seq_midi           16384  0
snd_seq_midi_event     16384  1 snd_seq_midi
qluc_helper            16384  1 aesni_intel
```



```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help

kayon-pc3:kayon-pc3:~$ ps -aux
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root           1  0.1  0.1 225516 9560 ?        Ss   16:33   0:03 /lib/systemd/systemd --system --deserialize 41
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 ?        I    16:33   0:00 [rcu_bh]
root          12  0.0  0.0      0  0 ?        S    16:33   0:00 [migration/0]
root          13  0.0  0.0      0  0 ?        S    16:33   0:00 [watchdog/0]
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 [watchdog/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 [watchdog/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          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 [watchdog/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          37  0.0  0.0      0  0 ?        I    16:33   0:00 [kworker/0:1-eve]
root          40  0.0  0.0      0  0 ?        S    16:33   0:00 [khungtaskd]
root          41  0.0  0.0      0  0 ?        S    16:33   0:00 [oom_reaper]
root          42  0.0  0.0      0  0 ?        I<   16:33   0:00 [writeback]
root          43  0.0  0.0      0  0 ?        S    16:33   0:00 [kcompactd0]
root          44  0.0  0.0      0  0 ?        SN   16:33   0:00 [ksmd]
root          45  0.0  0.0      0  0 ?        SN   16:33   0:00 [khugepaged]
root          46  0.0  0.0      0  0 ?        I<   16:33   0:00 [crypto]
root          47  0.0  0.0      0  0 ?        I<   16:33   0:00 [kintegrityd]
root          48  0.0  0.0      0  0 ?        I<   16:33   0:00 [kblockd]
root          49  0.0  0.0      0  0 ?        I    16:33   0:00 [kworker/3:1-eve]
root          50  0.0  0.0      0  0 ?        I<   16:33   0:00 [ata_sff]
root          51  0.0  0.0      0  0 ?        I<   16:33   0:00 [md]
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help

kayon-pc3:kayon-pc3:~$ 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)

kayon-pc3:kayon-pc3:~$ free
              total        used        free      shared  buff/cache   available
Mem:           8106416       1434680       2682220          100664       3988916       6267860
Swap:          9470800           0        9470800

kayon-pc3:kayon-pc3:~$ 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        : 2430.081
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 vmmi flexpriority ept vpid fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid
cr8 avx512_bf16 avx512_vbmi avx512_vnni avx512_bv2 avx512_bitaltern
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
kayon-pc3@kayon-pc3:~$ finger root
Login: root                Name: root
Directory: /root           Shell: /bin/bash
Never logged in.
No mail.
No Plan.
kayon-pc3@kayon-pc3:~$ halt
Failed to halt system via logind: Interactive authentication required.
kayon-pc3@kayon-pc3:~$
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
kayon-pc3@kayon-pc3:~$ finger root
Login: root                Name: root
Directory: /root           Shell: /bin/bash
Never logged in.
No mail.
No Plan.
kayon-pc3@kayon-pc3:~$ halt
Failed to halt system via logind: Interactive authentication required.
kayon-pc3@kayon-pc3:~$
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help

kayon-pc3@kayon-pc3:~$ free
             total        used        free      shared  buff/cache   available
Mem:      8106416      1420156      2701516        93228       3984744       6289816
Swap:          0           0          947080

kayon-pc3@kayon-pc3:~$ pstree
systemd───ModemManager───2*[{ModemManager}]
          │
          └─NetworkManager───dhcpcd
              │
              └─2*[{NetworkManager}]
                  │
                  └─Thunar───2*[{Thunar}]
                      │
                      └─accounts-daemon───2*[{accounts-daemon}]
                          │
                          └─acpid
                              │
                              └─avahi-daemon───avahi-daemon
                                  │
                                  └─cron
                                      │
                                      └─cups-browsed───2*[{cups-browsed}]
                                          │
                                          └─cupsd
                                              │
                                              └─dbus-daemon
                                                  │
                                                  └─fwupd───4*[{fwupd}]
                                                      │
                                                      └─gnome-keyring-d───3*[{gnome-keyring-d}]
                                                          │
                                                          └─irqbalance───{irqbalance}
                                                              │
                                                              └─2*[{kerneloops}]
                                                                  │
                                                                  └─lightdm───Xorg───{Xorg}
                                                                      │
                                                                      └─lightdm───sh───xfce4-session───applet.py───{applet.py}
                                                                          │
                                                                          └─blueman-applet───3*[{blueman-applet}]
                                                                              │
                                                                              └─light-locker───3*[{light-locker}]
                                                                                  │
                                                                                  └─nm-applet───3*[{nm-applet}]
                                                                                      │
                                                                                      └─polkit-gnome-au───2*[{polkit-gnome-au}]
                                                                                          │
                                                                                          └─update-notifier───3*[{update-notifier}]
                                                                                              │
                                                                                              └─2*[{xfce4-session}]
                                                                                                  │
                                                                                                  └─2*[{lightdm}]
                                                                                                      │
                                                                                                      └─2*[{lightdm}]
                                                                                                          │
                                                                                                          └─lvmetad
                                                                                                              │
                                                                                                              └─networkd-dispatcher───{networkd-dispatcher}
                                                                                                                  │
                                                                                                                  └─nvidia-persistenced───{nvidia-persistenced}
                                                                                                                      │
                                                                                                                      └─packagekitd───2*[{packagekitd}]
                                                                                                                          │
                                                                                                                          └─polkitd───2*[{polkitd}]
                                                                                                                              │
                                                                                                                              └─pulseaudio───{pulseaudio}
                                                                                                                                  │
                                                                                                                                  └─python3───2*[{python3}]
                                                                                                                                      │
                                                                                                                                      └─rsyslogd───3*[{rsyslogd}]
                                                                                                                                          │
                                                                                                                                          └─rtkit-daemon───2*[{rtkit-daemon}]
                                                                                                                                            │
                                                                                                                                            └─sshd
                                                                                                                                                │
                                                                                                                                                └─systemd───(sd-pam)
                                                                                                                                                    │
                                                                                                                                                    └─at-spi-bus-launcher───dbus-daemon
                                                                                                                                                        │
                                                                                                                                                        └─3*[{at-spi-bus-launcher}]
                                                                                                                                                            │
                                                                                                                                                            └─at-spi2-registrart───2*[{at-spi2-registrart}]
                                                                                                                                                                │
                                                                                                                                                                └─dbus-daemon
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help

kayon-pc3@kayon-pc3:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos

kayon-pc3@kayon-pc3:~$ ls -l
total 32
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Desktop
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Okt  9 17:13 Documents
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Downloads
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Music
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Pictures
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Public
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Templates
drwxr-xr-x 2 kayon-pc3 kayon-pc3 4096 Sep  4 10:30 Videos
kayon-pc3@kayon-pc3:~$ ls -l/home
ls: invalid option -- '/'
Try 'ls --help' for more information.
kayon-pc3@kayon-pc3:~$ whatis ls
ls (1) - list directory contents
kayon-pc3@kayon-pc3:~$ whatis mkdir
mkdir (1) - make directories
mkdir (2) - create a directory
kayon-pc3@kayon-pc3:~$ mkdir informatika
kayon-pc3@kayon-pc3:~$ rmdir informatika
kayon-pc3@kayon-pc3:~$ touch rpl.txt
kayon-pc3@kayon-pc3:~$ rm rpl.txt
kayon-pc3@kayon-pc3:~$ which mkdir
/bin/mkdir
kayon-pc3@kayon-pc3:~$ whereis ls
ls: /bin/ls /usr/share/man/man1/ls.1.gz
kayon-pc3@kayon-pc3:~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            4012956        0   4012956   0% /dev
tmpfs           810644       1372    809272   1% /run
/dev/sda4       20027216  9157980   9826852  49% /
tmpfs           4053208    67896   3985312   2% /dev/shm
tmpfs           5120         4        5116   1% /run/lock
tmpfs           4053208        0   4053208   0% /sys/fs/cgroup
tmpfs           810640       32    810608   1% /run/user/1000
kayon-pc3@kayon-pc3:~$ du
4  ./Desktop
4  ./Templates
616 ./thumbnails/normal
620 ./thumbnails
4  ./gnupg/private-keys-v1.d
8  ./gnupg
4  ./Pictures
```



```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
kayon-pc3@kayon-pc3:~$ finger root
Login: root                      Name: root
Directory: /root                 Shell: /bin/bash
Never logged in.
No mail.
No Plan.
kayon-pc3@kayon-pc3:~$ halt
Failed to halt system via logind: Interactive authentication required.
kayon-pc3@kayon-pc3:~$
```

