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Kelas : E

MODUL 5

Praktikum

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
kayon-pc3@kayon-pc3:~$ echo halo dunia
halo dunia
kayon-pc3@kayon-pc3:~$ date
Sat Oct 11 08:43:07 WIB 2022
kayon-pc3@kayon-pc3:~$ hostname
kayon-pc3
kayon-pc3@kayon-pc3:~$ arch
x86_64
kayon-pc3@kayon-pc3:~$ uname -a
Linux kayon-pc3 5.0.0-37-generic #40-18.04.1-Ubuntu SMP Thu Nov 14 12:06:39 UTC 2019 x86_64 x86_64 GNU/Linux
kayon-pc3@kayon-pc3:~$ dmesg|more
[ 0.000000] microcode: microcode updated early to revision 0x27, date = 2019-02-26
[ 0.000000] Linux version 5.0.0-37-generic (buildd@lcy01-amd64-023) (gcc vers
ion 7.4.0 (Ubuntu 7.4.0-1ubuntu1-18.04.1)) #40-18.04.1-Ubuntu SMP Thu Nov 14 12:
06:39 UTC 2019 (Ubuntu 5.0.0-37-40-18.04.1-generic 5.0.21)
[ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.0.0-37-generic root=UUID
=3b84dc42-e5c5-4cb3-af44-24c40b35d2ff ro quiet splash vt.handoff=1
[ 0.000000] KERNEL supported cpus:
[ 0.000000] Intel GenuineIntel
[ 0.000000] AMD AuthenticAMD
[ 0.000000] Hygon HygonGenuine
[ 0.000000] Centaur CentaurHauls
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point regi
sters'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
[ 0.000000] x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
[ 0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes,
using 'standard' format.
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x0000000000000d7fff] usable
[ 0.000000] BIOS-e820: [mem 0x0000000000000d8000-0x0000000000000fffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000000e0000-0x0000000000000fffff] reserved
--More--
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
kayon-pc3@kayon-pc3:~$ uptime
08:46:32 up 5 min, 1 user, load average: 0,10, 0,40, 0,24
kayon-pc3@kayon-pc3:~$ whoami
kayon-pc3
Command 'whoami' not found, did you mean:
  command 'whom' from deb mailutils-mh
  command 'whom' from deb mh
  command 'whom' from deb mh
  command 'whoami' from deb coreutils
Try: sudo apt install <deb name>
kayon-pc3@kayon-pc3:~$ whoami
kayon-pc3
kayon-pc3@kayon-pc3:~$ who
kayon-pc3 tty7 2022-10-11 08:41 (:0)
kayon-pc3@kayon-pc3:~$ id
uid=1000(kayon-pc3) gid=1000(kayon-pc3) groups=1000(kayon-pc3),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),118(lpadmin),126(sambashare)
kayon-pc3@kayon-pc3:~$ last
kayon-pc tty7 :0 Tue Oct 11 08:41 gone - no logout
reboot system boot 5.0.0-37-generic Tue Oct 11 08:41 still running
kayon-pc tty7 :0 Tue Oct 11 07:57 - 07:57 (00:00)

wtmp begins Tue Oct 11 07:57:13 2022
kayon-pc3@kayon-pc3:~$ finger
Login Name Tty Idle Login Time Office Office Phone
kayon-pc3 kayon-pc3 tty7 6 Oct 11 08:41 (:0)
kayon-pc3@kayon-pc3:~$ w
08:47:22 up 6 min, 1 user, load average: 0,04, 0,33, 0,23
USER TTY FROM LOGIN IDLE JCPU PCPU WHAT
kayon-pc3 tty7 :0 08:41 0:07 4.45s 0.01s /bin/sh /etc/xdg/xfce4/xinitrc -- /etc/X11/xinit/xserverrc
kayon-pc3@kayon-pc3:~$ top
top - 08:47:49 up 6 min, 1 user, load average: 0,02, 0,30, 0,22
Tasks: 193 total, 1 running, 142 sleeping, 0 stopped, 0 zombie
%Cpu(s): 2,3 us, 0,3 sy, 0,0 ni, 97,3 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
KiB Mem : 8183668 total, 6497884 free, 632124 used, 974460 buff/cache
KiB Swap: 0 total, 0 free, 0 used, 7225064 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
 1088 root        20   0 340564 54124 39536 S   9,6  0,7   0:05.33 Xorg
2681 kayon-pr   20   0 531316 32320 24676 S   3,0  0,4   0:01.42 xfce4-terminal
1913 kayon-pr   20   0 192076 22084 17852 S   0,3  0,3   0:00.72 xfce4
2803 kayon-pr  20   0 51772  4200 3452 R   0,3  0,1   0:00.11 top
 1 root        20   0 926560 6148 6874 S   0,0  0,1   0:01.16 systemd
```

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Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
2803 kayon-pc3 20 0 51772 4200 3452 R 0.3 0.1 0:00.11 top
1 root 20 0 225260 9148 6824 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
5 root 20 0 0 0 0 I 0.0 0.0 0:00.03 kworker/0:0-eve
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 0:00.01 ksoftirqd/0
10 root 20 0 0 0 0 I 0.0 0.0 0:00.13 rcu_sched
11 root rt 0 0 0 S 0.0 0.0 0:00.00 migration/0
12 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/0
14 root 20 0 0 0 0 S 0.0 0.0 0:00.00 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 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 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
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 S 0.0 0.0 0:00.00 migration/3
30 root 20 0 0 0 0 S 0.0 0.0 0:00.01 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
38 root 20 0 0 0 0 S 0.0 0.0 0:00.00 oom_reaper
39 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 writeback
40 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kcompactd0
kayon-pc3@kayon-pc3:~$ echo $SHELL
/bin/bash
kayon-pc3@kayon-pc3:~$ echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
kayon-pc3@kayon-pc3:~$ man ls
No manual entry for ls
(Alternatively, what manual page do you want from section 1s?)
kayon-pc3@kayon-pc3:~$ man ls
No manual entry for ls
kayon-pc3@kayon-pc3:~$
```

```
Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
39 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 writeback
40 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kcompactd0
kayon-pc3@kayon-pc3:~$ echo $SHELL
/bin/bash
kayon-pc3@kayon-pc3:~$ echo {con,pre}{sent,fer}{s,ed}
consents consented confers conferred presents presented prefers preferred
kayon-pc3@kayon-pc3:~$ man ls
No manual entry for ls
(Alternatively, what manual page do you want from section 1s?)
kayon-pc3@kayon-pc3:~$ man ls
No manual entry for ls
kayon-pc3@kayon-pc3:~$ man ls
No manual entry for ls
kayon-pc3@kayon-pc3:~$ man ls
kayon-pc3@kayon-pc3:~$ man who
kayon-pc3@kayon-pc3:~$ who can tell me about linux
who: extra operand 'me'
Try 'who --help' for more information.
kayon-pc3@kayon-pc3:~$ last
kayon-pc tty7 :0 Tue Oct 11 08:41 gone - no logout
reboot system boot 5.0.0-37-generic Tue Oct 11 08:41 still running
kayon-pc tty7 :0 Tue Oct 11 07:57 - 07:57 (00:00)

wtmp begins Tue Oct 11 07:57:13 2022
kayon-pc3@kayon-pc3:~$ fdisk -l
fdisk: invalid option -- 'l'
Try 'fdisk --help' for more information.
kayon-pc3@kayon-pc3:~$ fdisk -l
fdisk: cannot open /dev/loop0: Permission denied
fdisk: cannot open /dev/loop1: Permission denied
fdisk: cannot open /dev/sda: Permission denied
kayon-pc3@kayon-pc3:~$ users
kayon-pc3
kayon-pc3@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=3b84dc42-e5c5-4cb3-af44-24c40b35d2ff / ext4 errors=remount-ro 0 1
kayon-pc3@kayon-pc3:~$ cal 2000
2000
January February Maret
```

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

# / was on /dev/sda4 during installation
UUID=3b84dc42-e5c5-4cb3-af44-24c40b35d2ff / ext4 errors=remount-ro 0 1
kayon-pc3@kayon-pc3:~$ 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

kayon-pc3@kayon-pc3:~$ 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

[Software Updater] Terminal - kayon-pc3@kayo... 11 Okt, 08:57
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Terminal - kayon-pc3@kayon-pc3:~
File Edit View Terminal Tabs Help

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

kayon-pc3@kayon-pc3:~$ 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

kayon-pc3@kayon-pc3:~$ 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

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:~$ echo 5+4 | bc -l
9
kayon-pc3@kayon-pc3:~$

[Software Updater] Terminal - kayon-pc3@kayo... 11 Okt, 08:59
```



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Terminal - kayon-pc3@kayon-pc3: ~
File Edit View Terminal Tabs Help
ipmi_asyn_notifier 102400 2 ipmi_devintf,nvram
realtek 20480 0
vmi 28672 2 asus_vmi,vmi_bmf
video 49152 1 asus_vmi
kayon-pc3@kayon-pc3:~$ ps -aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.1 225260 9148 ?        Ss   08:41   0:01 /sbin/init splash
root         2  0.0  0.0  0 0 ?        S   08:41   0:00 [kthreadd]
root         3  0.0  0.0  0 0 ?        I<   08:41   0:00 [rcu_gp]
root         4  0.0  0.0  0 0 ?        I<   08:41   0:00 [rcu_par_gp]
root         5  0.0  0.0  0 0 ?        I   08:41   0:00 [kworker/0:0-eva]
root         6  0.0  0.0  0 0 ?        I<   08:41   0:00 [kworker/0:0H-kb]
root         8  0.0  0.0  0 0 ?        I<   08:41   0:00 [mm_percpu_wq]
root         9  0.0  0.0  0 0 ?        S   08:41   0:00 [ksoftirqd/0]
root        10  0.0  0.0  0 0 ?        I   08:41   0:00 [rcu_sched]
root        11  0.0  0.0  0 0 ?        S   08:41   0:00 [migration/0]
root        12  0.0  0.0  0 0 ?        S   08:41   0:00 [idle_inject/0]
root        14  0.0  0.0  0 0 ?        S   08:41   0:00 [cpuhp/0]
root        15  0.0  0.0  0 0 ?        S   08:41   0:00 [cpuhp/1]
root        16  0.0  0.0  0 0 ?        S   08:41   0:00 [idle_inject/1]
root        17  0.0  0.0  0 0 ?        S   08:41   0:00 [migration/1]
root        18  0.0  0.0  0 0 ?        S   08:41   0:00 [ksoftirqd/1]
root        20  0.0  0.0  0 0 ?        I<   08:41   0:00 [kworker/1:0H-kb]
root        21  0.0  0.0  0 0 ?        S   08:41   0:00 [cpuhp/2]
root        22  0.0  0.0  0 0 ?        S   08:41   0:00 [idle_inject/2]
root        23  0.0  0.0  0 0 ?        S   08:41   0:00 [migration/2]
root        24  0.0  0.0  0 0 ?        S   08:41   0:00 [ksoftirqd/2]
root        26  0.0  0.0  0 0 ?        I<   08:41   0:00 [kworker/2:0H-kb]
root        27  0.0  0.0  0 0 ?        S   08:41   0:00 [cpuhp/3]
root        28  0.0  0.0  0 0 ?        S   08:41   0:00 [idle_inject/3]
root        29  0.0  0.0  0 0 ?        S   08:41   0:00 [migration/3]
root        30  0.0  0.0  0 0 ?        S   08:41   0:00 [ksoftirqd/3]
root        32  0.0  0.0  0 0 ?        I<   08:41   0:00 [kworker/3:0H-kb]
root        33  0.0  0.0  0 0 ?        S   08:41   0:00 [kdevtmpfs]
root        34  0.0  0.0  0 0 ?        I<   08:41   0:00 [netns]
root        35  0.0  0.0  0 0 ?        S   08:41   0:00 [rcu_tasks_kthre]
root        36  0.0  0.0  0 0 ?        S   08:41   0:00 [kauditd]
root        37  0.0  0.0  0 0 ?        S   08:41   0:00 [khungtaskd]
root        38  0.0  0.0  0 0 ?        S   08:41   0:00 [oom_reaper]
root        39  0.0  0.0  0 0 ?        I<   08:41   0:00 [writeback]
root        40  0.0  0.0  0 0 ?        S   08:41   0:00 [kcompactd0]
root        41  0.0  0.0  0 0 ?        SN   08:41   0:00 [ksmd]
root        42  0.0  0.0  0 0 ?        SN   08:41   0:00 [khugepaged]
root        43  0.0  0.0  0 0 ?        I<   08:41   0:00 [crypto]
root        44  0.0  0.0  0 0 ?        I<   08:41   0:00 [kintegrityd]
root        45  0.0  0.0  0 0 ?        I<   08:41   0:00 [kblockd]

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```
Terminal - kanyon-pc3@kanyon-pc3: ~
File Edit View Terminal Tabs Help
kanyon-pc3 2950 0.0 0.0 4/230 3504 pts/0  K+  09:07  0:00 ps -aux
kanyon-pc3@kanyon-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)
kanyon-pc3@kanyon-pc3:~$ free
              total        used        free      shared  buff/cache   available
Mem:           8103668      638984      6470728          8044       993956       7213812
Swap:              0              0              0
kanyon-pc3@kanyon-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        : 833.470
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_pt_pse36_clflush_dts_acpi_mmx_fxsr_sse_sse2_ss_ht_tm_pbe_syscall_nx_pdpelgb_rdtscp_lm_constant_tsc_arch_perfmon
bugs           : rep_good_nopl_xtopology_nopstop_tsc_cpuid_aperfperf_pni_pclmulqdq_dtes64_monitor_ds_cpl_vmx_smx_est_tm2_sse3_sdbg_fma_cx16_xtrp_pdcn_pcid_sse4_1_sse4_2_x2apic_movbe_popcnt_tsc_deadlin
ne_timer_aes_xsave_avx_f16c_rdrand_lahf_lm_ahm_cpuid_fault_epb_invpcid_single_pti_ssbd_ibrs_ibpb_stibp_tpr_shadow_vmmi_flexpriority_ept_vpid_ept_ad_fsgsbase_tsc_adjust_bmi1_avx2_smp_bmi2_erms
```

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

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 : 328.627
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 aperfmperf 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_lid
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit
bogomips : 6584.78
clflush_size : 64
cache_alignment : 64
address_sizes : 39 bits physical, 48 bits virtual
power_management:

kayon-pc3@kayon-pc3:~$ halt
Failed to halt system via logind: Interactive authentication required.
Failed to open /dev/initctl: Permission denied
Failed to talk to init daemon.
kayon-pc3@kayon-pc3:~$ halt
Failed to halt system via logind: Interactive authentication required.
Failed to open /dev/initctl: Permission denied
Failed to talk to init daemon.
kayon-pc3@kayon-pc3:~$ uname -a
Linux kayon-pc3 5.0.0-37-generic #40~18.04.1-Ubuntu SMP Thu Nov 14 12:06:39 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
kayon-pc3@kayon-pc3:~$
```

Tugas

1. Jelaskan distro linux yang ada saat ini!
 - Ubuntu
 - Linux mint
 - Debian
 - Fedora
 - Kali linux
2. Jelaskan 20 perintah yang sama diantara masing-masing distro!
 - Pwd command
 - Cd command
 - ls command
 - cat command
 - cp command
 - mv command
 - mkdir command
 - rmdir command
 - rm command
 - touch command
 - locate command
 - find command
 - grep command
 - sudo command
 - df command
 - du command
 - head command
 - tail command
 - diff command
 - tar command
3. jelaskan yang dimaksud init 0, init 1, init 2, init 3,init 4, init 5,init 6!
 - Init 0 Digunakan utk maintenance, diagnostic hardware, booting selain dari disk misal dari cdroom.
 - Init 1 Single user mode, digunakan utk menambahkan patches, backup/restore system. di level ini kita bisa menjalankan/access semua file tapi user lain tidak bisa login ke dalam sytem kita.
 - Init 2 multiuser mode, biasanya utk digunakan dalam network. tapi disini tidak ada resourches yang di share.
 - Init 3 memperluas multiuser mode,kita bisa membuat local resourches share pada network kita. sehingga kita bisa berbagi data dilevel ini dalam network.
 - Init 4 utk alternative multiuser mode tetapi saat ini belum bisa digunakan.
 - Init 5 utk shutdown/ power off.
 - Init 6 men stop operating system kemudian reboot dan kembali ke initdefault nya yang ada di /etc/inittab.

4. Jelaskan maksud dari perintah quota!

Quota adalah nilai batas yang ditetapkan untuk mengelola akses ke sumber daya sistem dan jaringan atau jumlah penyimpanan yang digunakan oleh User atau Group tertentu.