

TUGAS
MATA KULIAH PRAKTIKUM
SISTEM OPERASI
MODUL : 5



Disusun Oleh:

FAZAT AQILAH

L200210256

Kelas E

PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS KOMUNIKASI DAN INFORMATIKA
UNIVERSITAS MUHAMMADIYAH SURAKARTA
TAHUN 2022-2023

LAPORAN PRAKTIKUM

NIM : L200210256
Nama : Fazat Aqilah
Dosen Pengampu : Heru Setya Nugraha, ST, M.Kom
Nama Asisten : -
Tanggal Praktikum : -

— Nilai Praktek

— Tanda tangan

```
Activities Terminal Oct 17 09:58
root@jjeeve-VirtualBox: /home/jjeeve

jjeeve@jjeeve-VirtualBox:~$ sudo su
[sudo] password for jjeeve:
root@jjeeve-VirtualBox:~# echo halo dunia
halo dunia
root@jjeeve-VirtualBox:~# date
Mon Oct 17 09:57:19 AM EDT 2022
root@jjeeve-VirtualBox:~# name
Command 'name' not found, did you mean:
  command 'nvme' from deb nvme-cli (1.16-3build1)
  command 'named' from deb bind9 (1:9.18.1-1ubuntu1.1)
  command 'name1' from deb util-linux (2.37.2-4ubuntu3)
  command 'uname' from deb coreutils (8.32-4.1ubuntu1)
Try: apt install <deb name>
root@jjeeve-VirtualBox:~# uname -a
Linux jjeeve-VirtualBox 5.15.0-43-generic #46-Ubuntu SMP Tue Jul 12 10:30:17 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
root@jjeeve-VirtualBox:~#
```

```
root@jjeeve-VirtualBox: /home/jjeeve

root@jjeeve-VirtualBox:~# uptime
10:01:53 up 6 min, 2 users, load average: 0.38, 0.41, 0.26
root@jjeeve-VirtualBox:~# whoami
root
root@jjeeve-VirtualBox:~# who
jjeeve tty2 2022-10-17 09:55 (tty2)
jjeeve pts/1 2022-10-17 09:56
root@jjeeve-VirtualBox:~# ld
uid=0(root) gid=0(root) groups=0(root)
root@jjeeve-VirtualBox:~# last
jjeeve tty2 tty2 Mon Oct 17 09:55 still logged in
reboot system boot 5.15.0-43-generic Mon Oct 17 09:55 still running
jjeeve tty2 tty2 Mon Oct 17 02:46 - crash (07:08)
reboot system boot 5.15.0-43-generic Mon Oct 17 02:46 still running

wtmp begins Mon Oct 17 02:46:01 2022
root@jjeeve-VirtualBox:~# finger
finger: command not found
root@jjeeve-VirtualBox:~# w
10:02:31 up 7 min, 2 users, load average: 0.45, 0.42, 0.27
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
jjeeve tty2 tty2 09:55 7:13 0.02s 0.02s /usr/libexec/gnome-session-binary --session=ubuntu
jjeeve pts/1 - 09:56 7:00s 0.00s 0.06s sudo su
root@jjeeve-VirtualBox:~# top

top - 10:02:40 up 7 min, 2 users, load average: 0.38, 0.40, 0.26
Tasks: 177 total, 1 running, 176 sleeping, 0 stopped, 0 zombie
%Cpu(s): 18.8 us, 6.2 sy, 0.0 ni, 75.0 id, 0.0 wa, 0.0 hi, 0.0 st, 0.0 st
Mem: 1763.7 total, 432.7 free, 611.8 used, 719.3 buff/cache
Mem Swap: 1610.0 total, 1610.0 free, 0.0 used, 967.3 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
 1437 jjeeve    20   0 3470520 317040 129436 S 13.3 17.6   0:20.66 gnome-shell
 1899 jjeeve    20   0 571908 53644 41568 S  6.7  3.0   0:02.12 gnome-terminal-
2029 root      20   0 21756 3908 3308 R  6.7  0.2   0:00.01 top
    1 root      20   0 166664 11784 8256 S  0.0  0.7   0:01.04 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
```

```
root@jjeeve-VirtualBox: /home/jjeeve# dmesg | more
[ 0.000000] Linux version 5.15.0-43-generic (build@lcy02-amd64-076) (gcc (Ubuntu 11.2.0-19ubuntu1) 11.2.0, GNU ld (GNU Binutils fo
r Ubuntu) 2.38) #46-Ubuntu SMP Tue Jul 12 10:30:17 UTC 2022 (Ubuntu 5.15.0-43-generic 5.15.39)
[ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.15.0-43-generic root=UUID=c33eec64-52af-46fa-be1d-6b2d77b15da7 ro quiet splash
[ 0.000000] KERNEL supported cpus:
[ 0.000000]   Intel GenuineIntel
[ 0.000000]   AMD AuthenticAMD
[ 0.000000]   Hygon HygonGenuine
[ 0.000000]   Centaur CentaurHauls
[ 0.000000]   zhaoxin Shanghai
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
[ 0.000000] x86/fpu: xstate offset[2]: 576, xstate_sizes[2]: 256
[ 0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'standard' format.
[ 0.000000] signal: max sigframe size: 1776
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x000000000009fbff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000009fc00-0x000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000000f0000-0x00000000000fffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000100000-0x0000000000727effff] usable
[ 0.000000] BIOS-e820: [mem 0x0000000000727f0000-0x0000000000727fffff] ACPI data
[ 0.000000] BIOS-e820: [mem 0x0000000000fec00000-0x0000000000fec0ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000fee00000-0x0000000000fee0ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000fffc0000-0x0000000000ffffff] reserved
[ 0.000000] NX (Execute Disable) protection: active
[ 0.000000] SMBIOS 2.5 present.
[ 0.000000] DMI: innotek GmbH VirtualBox/VirtualBox, BIOS VirtualBox 12/01/2006
[ 0.000000] Hypervisor detected: KVM
[ 0.000000] kvm-clock: Using msrs 4b564d01 and 4b564d00
[ 0.000000] kvm-clock: cpu 0, msr e401001, primary cpu clock
[ 0.000002] kvm-clock: using sched offset of 4578141571 cycles
[ 0.000005] clocksource: kvm-clock: mask: 0xffffffffffffff max_cycles: 0x1cd42e4dffb, max_idle_ns: 881590591483 ns
[ 0.000008] tsc: Detected 1190.390 MHz processor
[ 0.001198] e820: update [mem 0x00000000-0x000000ffff] usable ==> reserved
[ 0.001206] e820: remove [mem 0x000a0000-0x0000ffff] usable
[ 0.001211] last_pfn = 0x727f0 max_arch_pfn = 0x400000000
[ 0.001230] Disabled
```

```
root@jjeeve-VirtualBox: /home/jjeeve#
Disk /dev/loop2: 400.8 MiB, 420265984 bytes, 820832 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop3: 163.29 MiB, 171225088 bytes, 334424 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop4: 91.69 MiB, 96141312 bytes, 187776 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop5: 45.86 MiB, 48091136 bytes, 93928 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop6: 46.96 MiB, 49242112 bytes, 96176 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop7: 284 KiB, 290816 bytes, 568 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/sda: 30 GiB, 32212254720 bytes, 62914560 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
```

```
root@jjeeve-VirtualBox: /home/jjeeve#
Disk /dev/loop2: 400.8 MiB, 420265984 bytes, 820832 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop3: 163.29 MiB, 171225088 bytes, 334424 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop4: 91.69 MiB, 96141312 bytes, 187776 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop5: 45.86 MiB, 48091136 bytes, 93928 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop6: 46.96 MiB, 49242112 bytes, 96176 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop7: 284 KiB, 290816 bytes, 568 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/sda: 30 GiB, 32212254720 bytes, 62914560 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
```

```
root@jjeeve-VirtualBox: /home/jjeeve
please
please
please
please
please
please
please
please
please
root@jjeeve-VirtualBox:/home/jjeeve# pwd
/home/jjeeve
root@jjeeve-VirtualBox:/home/jjeeve# history
1 echo halo dunia
2 date
3 name
4 uname -a
5 dmesg | more
6 uptime
7 whoami
8 who
9 id
10 last
11 finger
12 w
13 top
14 echo $SHELL
15 echo {con,pre}{sent,fer}{s,ed}
16 mas ls
17 q
18 man who
19 waho can tell me about linux
20 last
21 fdisk -l
22 users
23 cat /etc/fstab
24 call 2000
25 cal 2000
26 col 2000
```

```
root@jjeeve-VirtualBox: /home/jjeeve
36 pwd
37 history
root@jjeeve-VirtualBox:/home/jjeeve# tail -f /var/log/message
tail: cannot open '/var/log/message' for reading: No such file or directory
tail: no files remaining
root@jjeeve-VirtualBox:/home/jjeeve# ^C
root@jjeeve-VirtualBox:/home/jjeeve# lsmod
Module                Size  Used by
snd_intel8x0           45056  2
snd_ac97_codec         180224  1 snd_intel8x0
ac97_bus               16384  1 snd_ac97_codec
snd_pcm               139264  2 snd_intel8x0,snd_ac97_codec
snd_seq_midi           20480  0
snd_seq_midi_event     16384  1 snd_seq_midi
intel_rapl_msr         20480  0
nls_iso8859_1          16384  1
snd_rawmidi            49152  1 snd_seq_midi
intel_rapl_common      36864  1 intel_rapl_msr
intel_powerclamp       20480  0
crc16_t10dif           16384  1
ghash_clmulni_intel    16384  0
snd_seq               73728  2 snd_seq_midi,snd_seq_midi_event
vmwgfx                 368448  2
aesni_intel            376832  0
snd_seq_device         16384  3 snd_seq,snd_seq_midi,snd_rawmidi
crypto_simd            16384  1 aesni_intel
cryptd                 24576  2 crypto_simd,ghash_clmulni_intel
ttm                    86016  1 vmwgfx
snd_timer              40960  2 snd_seq,snd_pcm
rapl                   20480  0
drm_kms_helper         307200  1 vmwgfx
joydev                 32768  0
snd                    102400  11 snd_seq,snd_seq_device,snd_intel8x0,snd_timer,snd_ac97_codec,snd_pcm,snd_rawmidi
cec                    61440  1 drm_kms_helper
input_leds             16384  0
serio_raw              20480  0
rc_core                65536  1 cec
fb_sys_fops            16384  1 drm_kms_helper
```

```
ahci                   45056  2
psmouse               176128  0
libahci                45056  1 ahci
i2c_piix4              28672  0
e1000                  155648  0
pata_acpi               16384  0
video                  53248  0
root@jjeeve-VirtualBox:/home/jjeeve# ps -aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.6 166664 11784 ?        Ss   09:55   0:01 /sbin/init splash
root         2  0.0  0.0      0  0 ?        S    09:55   0:00 [kthreadd]
root         3  0.0  0.0      0  0 ?        I<   09:55   0:00 [rcu_gp]
root         4  0.0  0.0      0  0 ?        I<   09:55   0:00 [rcu_par_gp]
root         5  0.0  0.0      0  0 ?        I<   09:55   0:00 [netns]
root         7  0.0  0.0      0  0 ?        I<   09:55   0:00 [kworker/0:0H-events_highpri]
root         8  0.0  0.0      0  0 ?        I    09:55   0:01 [kworker/0:1-events]
root        10  0.0  0.0      0  0 ?        I<   09:55   0:00 [mm_percpu_wq]
root        11  0.0  0.0      0  0 ?        S    09:55   0:00 [rcu_tasks_rude_]
root        12  0.0  0.0      0  0 ?        S    09:55   0:00 [rcu_tasks_trace]
root        13  0.0  0.0      0  0 ?        S    09:55   0:00 [ksoftirqd/0]
root        14  0.0  0.0      0  0 ?        I    09:55   0:00 [rcu_sched]
root        15  0.0  0.0      0  0 ?        S    09:55   0:00 [migration/0]
root        16  0.0  0.0      0  0 ?        S    09:55   0:00 [idle_inject/0]
root        17  0.0  0.0      0  0 ?        S    09:55   0:00 [cpuhp/0]
root        18  0.0  0.0      0  0 ?        S    09:55   0:00 [kdevtmpfs]
root        19  0.0  0.0      0  0 ?        I<   09:55   0:00 [inet_frag_wq]
root        20  0.0  0.0      0  0 ?        S    09:55   0:00 [kauditd]
root        21  0.0  0.0      0  0 ?        S    09:55   0:00 [khungtaskd]
root        22  0.0  0.0      0  0 ?        S    09:55   0:00 [oom_reaper]
root        23  0.0  0.0      0  0 ?        I<   09:55   0:00 [writeback]
root        24  0.0  0.0      0  0 ?        S    09:55   0:00 [kcompactd0]
root        25  0.0  0.0      0  0 ?        SN   09:55   0:00 [ksmd]
root        26  0.0  0.0      0  0 ?        SN   09:55   0:00 [khugepaged]
root        72  0.0  0.0      0  0 ?        I<   09:55   0:00 [kintegrityd]
root        73  0.0  0.0      0  0 ?        I<   09:55   0:00 [kblockd]
root        74  0.0  0.0      0  0 ?        I<   09:55   0:00 [blkcg_punt_bio]
root        75  0.0  0.0      0  0 ?        I<   09:55   0:00 [tpm_dev_wq]
root        76  0.0  0.0      0  0 ?        I<   09:55   0:00 [ata_sff]
```



```

root@jjeeve-VirtualBox: /home/jjeeve# lspci
00:00.0 Host bridge: Intel Corporation 440FX - 82441FX PMC [Natoma] (rev 02)
00:01.0 ISA bridge: Intel Corporation 82371SB PIIX3 ISA [Natoma/Triton II]
00:01.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
00:02.0 VGA compatible controller: VMware SVGA II Adapter
00:03.0 Ethernet controller: Intel Corporation 82540EM Gigabit Ethernet Controller (rev 02)
00:04.0 System peripheral: InnoTek Systemberatung GmbH VirtualBox Guest Service
00:05.0 Multimedia audio controller: Intel Corporation 82801AA AC'97 Audio Controller (rev 01)
00:06.0 USB controller: Apple Inc. KeyLargo/Intrepid USB
00:07.0 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 08)
00:0d.0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Controller [AHCI mode] (rev 02)
root@jjeeve-VirtualBox: /home/jjeeve# free
              total        used        free      shared  buff/cache   available
Mem:          1806056        664888        407880        36772        733288        951496
Swap:          1648636             0        1648636
root@jjeeve-VirtualBox: /home/jjeeve# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 126
model name     : Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz
stepping       : 5
cpu MHz        : 1190.390
cache size     : 4096 KB
physical id    : 0
siblings       : 1
core id        : 0
cpu cores      : 1
apicid         : 0
initial apicid: 0
fpu            : yes
fpu_exception  : yes
cpuid level    : 22
wp             : yes
flags           : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx rdtsc
cp_l1_constant_tsc rep_good nopl xtopology nonstop_tsc cpuid tsc_known_freq pni pclmulqdq monitor sse3 cx16 pcid sse4_1 sse4_2 x2apic
movbe popcnt aes xsave avx rdrand hypervisor lahf_lm abm 3dnowprefetch invpcid_single fsgsbase avx2 invpcid rdseed clflushopt md_clear
flush_l3l1 arch_capabilities

```

```

root@jjeeve-VirtualBox:/home/jjeeve#
00:0d:0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Controller [AHCI mode] (rev 02)
root@jjeeve-VirtualBox:/home/jjeeve# free
              total        used        free      shared  buff/cache   available
Mem:      1806056        664888        407880        36772        733288        951496
Swap:      1648636           0        1648636
root@jjeeve-VirtualBox:/home/jjeeve# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 126
model name     : Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz
stepping       : 5
cpu MHz        : 1190.390
cache size     : 4096 KB
physical id    : 0
siblings       : 1
core id        : 0
cpu cores      : 1
apicid         : 0
initial apicid : 0
fpu            : yes
fpu_exception  : yes
cpuid level    : 22
wp             : yes
flags          : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx rdtsc
               : rep_good nopl xtopology nonstop_tsc cpuid tsc_known_freq pni pclmulqdq monitor ssse3 cx16 pcid sse4_1 sse4_2 x2apic
               : movbe popcnt aes xsave avx rdrand hypervisor lahf_lm abm 3dnowprefetch invpcid_single fsgsbase avx2 invpcid rdseed clflushopt md_cleav
               : flush_l1d arch_capabilities
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs itlb_multihit srbds mmio_stale_data
bogomips       : 2380.78
clflush size   : 64
cache alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

root@jjeeve-VirtualBox:/home/jjeeve# finger root
finger: command not found
root@jjeeve-VirtualBox:/home/jjeeve#

```

Tugas

1. Jelaskan distro linux yang ada saat ini (minimal 5)
 - Ubuntu
 - Debian
 - Mandrake
 - CentOS
 - fedora
 - redhat
 - linux mint
2. jelaskan dua puluh perintah yang sama diantara masing masing distro
 - pwd command (perintah dasar linux untuk mencari path dari direktori yang sedang digunakan)

- cd command (untuk menjelajahi file dan direktori linux)
 - ls command (perintah dasar yang digunakan untuk melihat konten atau isi direktori)
 - cat command (perintah dasar yang sering digunakan untuk membuat daftar konten atau isi file pada standart output (sdout)).
 - cp command (digunakan untuk menyalin file dari direktori saat ini ke direktori yang berbeda)
 - mv command (unntuk memindahkan file meskipun sebenarnya bisa digunakan untuk mengganti file atau nama file)
 - mkdir command (untuk membuat direktori baru)
 - rmdir command (untuk menghapus direktori –hanya untuk menghapus direktori kosong-)
 - rm command (digunakan untuk menghapus direktori beserta isinya)
 - touch command (perintah dasar yang memperbolehkan untuk membuat file baru yang kosong melalui baris perintah linux)
 - locate command (digunakan untuk mencari file –fungsinya sama seperti command pencarian OS Windows)
 - find command (juga bisa digunakan untuk mencari file dan direktori namun leboh ditujukan untuk mencari file yang beralokasi didalam direktori yang diberikan)
 - grep command (perintah dasar yang sangat berguna untuk menyelesaikan task harian)
 - sudo command (berfungsi untuk menjalankan task yang memerlukan hak akses administrative atau root)
 - df command (untuk mendapatkan laporan tentang penggunaan disk space system)
 - du command (berfungsi untuk mengecek seberapa banyak space yang digunakan oleh suatu file atau direktori)
 - head command (digunakan untuk melihat baris pertama dari semua file teks)
 - tail command (memiliki fungsi yang sama dengan head, namun alih-alih baris pertama, tail akan menampilkan sepuluh baris terakhir dari suatu file)
 - diff command (untuk membandingkan konten atau isi dua file berdasarkan baris demi baris)
 - tar command (untuk mengarsipkan file kedalam tarball – format file linux yang serupa dengan format zip dimana Tindakan kompresi bersifat opsional
3. jelaskan maksud dari perintah init 0, init 1, init 2, init 3, init 4, init 5, init 6.
- Init 0 adalah perintah yang digunakan untuk halt/shutdown system
 - Init 1 adalah perintah yang digunakan untuk mode pengguna tunggal (recovery/safe ode)
 - Init 2 adalah perintah yang digunakan untuk lokal multiuser, tidak ada driver jaringan
 - Init 3 adalah perintah yang digunakan untuk full multiuser dan ada dukungan jaringan
 - Init 4 mirip dengan init 3, ini dicadangkan untuk tujuan lain dari penelitian
 - Init 5 adalah perintah yang digunakan untuk GUI/XII
 - Init 6 adalah perintah yang digunakan untuk restarting/reboot system
4. Jelaskan maksud dari perintah 'quota'
- Quota adalah nilai batas yang ditetapkan untuk mengelola akses ke sumber daya system dan jaringan atau jumlah penyimpanan yang digunakan oleh user atau grup tertentu