LAB 2

Identify the current USB devices (hint.:lsusb)

```
tahoun@tahoun-VirtualBox:~$ lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 002: ID 80ee:0021 VirtualBox USB Tablet
Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
```

Count how many CPUs (cores) on your device.

```
tahoun@tahoun-VirtualBox:~$ cat /proc/cpuinfo
processor
vendor_id
cpu family
                   GenuineIntel
model
model name
stepping
                   158
                   Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz
                   10
cpu MHz
                   2208.000
cache size
                   9216 KB
physical id
siblings
                   0
core id
cou cores
                 : 1
apicid
                   0
initial apicid
fpu
fpu_exception
                 : yes
                 : yes
cpuid level
                 : 22
                   ves
wp
flags
                 : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse
ni pclmulqdq monitor ssse3 cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx rdrand hypervisor lahf_lm abm
h_l1d arch_capabilities
                 : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit srbds mmio_st
bugs
bogomips
                 : 4416.00
clflush size
                 : 64
cache_alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:
```

```
tahoun@tahoun-VirtualBox:~$ cat /proc/cpuinfo | grep cores
cpu cores : 1
```

Take a snapshot of current disk statistics 5 times with 2 seconds interval.

					أبر, 2023 1			
avg-cpu:	%user 6.33	%nice 0.68	%system %iowait		%idle 89.70			
Device		tps	kB_read/s	kB_wrtn/s	kB_dscd/s	kB_read	kB_wrtn	kB_dscd
loop0								
loop1								
loop10								
loop11								
loop12								
loop13								
loop14								
loop15								
loop16								
loop17								
loop18								
loop19								
loop2								
loop20								
loop21								
loop22								
loop3								
loop4								
loop5								
loop6								
loop7								
loop8								
loop9								
sr0								
avg-cpu:	%user	%nice	%system %iowait	: %steal	%idle			
g cpu.	2.08	0.00	1.04 0.00		96.88			
Device		tps	kB_read/s	kB_wrtn/s	kB_dscd/s	kB_read	kB_wrtn	kB_dscd
loop0								
loop1								
loop10		0.00	0.00	0.00	0.00	0	0	0

measure the network activities using (hint: nicstat)

```
tahoun@tahoun-VirtualBox:~$ nicstat
                                     rPk/s
    Time
              Int
                     rKB/s
                             wKB/s
                                              wPk/s
                                                       rAvs
                                                                wAvs %Util
                                                                               Sat
11:46:07
               lo
                      0.01
                              0.01
                                      0.11
                                               0.11
                                                      116.0
                                                               116.0 0.00
                                                                              0.00
11:46:07
           enp0s3
                     244.6
                              1.84
                                     169.2
                                              30.16
                                                     1479.9
                                                               62.50
                                                                      0.20
                                                                              0.00
```

List current PCI devices on your device

```
tahoun@tahoun-VirtualBox:-$ 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)

00:0b.0 USB controller: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB2 EHCI Controller

00:0d.0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Controller [AHCI mode] (rev 02)
```

```
tahoun@tahoun-VirtualBox:~$ sudo find / -name "*.zip
[sudo] password for tahoun:
/usr/share/libreoffice/share/config/images_yaru.zip
/usr/share/libreoffice/share/config/images_breeze.zip
/usr/share/libreoffice/share/config/images_colibre.zip
/usr/share/libreoffice/share/config/images_helpimg.zip
/usr/share/libreoffice/share/config/images_elementary.zip
/usr/share/libreoffice/share/config/images_elementary_svg.zip
/usr/share/libreoffice/share/config/images_yaru_mate_svg.zip
/usr/share/libreoffice/share/config/images_yaru_svg.zip
/usr/share/libreoffice/share/config/images_breeze_dark_svg.zip
/usr/share/libreoffice/share/config/images_breeze_dark.zip
/usr/share/libreoffice/share/config/images_breeze_svg.zip
/usr/share/libreoffice/share/config/images_yaru_mate.zip
/usr/lib/libreoffice/share/config/images_yaru.zip
/usr/lib/libreoffice/share/config/images_breeze.zip
/usr/lib/libreoffice/share/config/images_colibre.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/round-white.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/elementary.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/simple.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/sukapura.zip
/usr/lib/libreoffice/share/config/images_helpimg.zip
/usr/lib/libreoffice/share/config/images_elementary.zip
/usr/lib/libreoffice/share/config/images_elementary_svg.zip
/usr/lib/libreoffice/share/config/images_yaru_mate_svg.zip
/usr/lib/libreoffice/share/config/images_yaru_svg.zip
/usr/lib/libreoffice/share/config/images_breeze_dark_svg.zip
/usr/lib/libreoffice/share/config/images_breeze_dark.zip
/usr/lib/libreoffice/share/config/images_breeze_svg.zip
/usr/lib/libreoffice/share/config/images_yaru_mate.zip
find: '/run/user/1000/doc': Permission denied find: '/run/user/1000/gvfs': Permission denied
```

Using grep and regex list all lines containing hex numbers on a /var/log/syslog