1. Identify the current USB devices (hint. : Isusb)

```
esraa@ubuntu:~$ 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
esraa@ubuntu:~$
```

2. Count how many CPUs (cores) on your device. (hint: /proc/cpuinfo)

```
esraa@ubuntu: ~
                                                                                                         a
model
                                96
model name
                               AMD PRO A10-8700B R6, 10 Compute Cores 4C+6G
stepping
                             : 1796.627
: 1024 KB
cpu MHz
cache size
physical id
                             : 0
siblings
core id
                                0
cpu cores
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 mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt rdtscp lm co
nstant_tsc rep_good nopl nonstop_tsc cpuid extd_apicid tsc_known_freq pni pclmu
lqdq ssse3 cx16 sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx rdrand hypervis
or lahf_lm cmp_legacy cr8_legacy abm sse4a misalignsse 3dnowprefetch ssbd vmmca
ll fsgsbase bmi1 avx2 bmi2 arat
buas
                            : fxsave leak sysret ss attrs null seg spectre v1 spectre v2 re
tbleed
                            : 3593.25
: 1536 4K pages
bogomips
TLB size
clflush size
                             : 64
cache_alignment
                               64
                                48 bits physical, 48 bits virtual
address sizes
power management:
```

3. Take a snapshot of current disk statistics 5 times with 2 seconds interval. (hint: iostat)

esraa@ubuntu:~\$ iostat 2 5 Linux 5.19.0-32-generic (ubuntu)				02/04/23	_x86_64	_ (	2 CPU)
avg-cpu:	%user 20.28		%system %iowai: 9.68 18.5		%idle 48.36		
Device wrtn	kB dscd	tps	kB_read/s	kB_wrtn/s	kB_dscd/s	kB_read	kB_
loop0							1
0 loop1							
loop10							
0 loop11							
loop12							
loop13							
0 loop14							
0 loop15							
0 loop16							
loop17							

4. measure the network activities using (hint: nicstat)

```
esraa@ubuntu:
               $ nicstat
                               wKB/s
                                                 wPk/s
                      rKB/s
                                        rPk/s
    Time
               Int
                                                                     wAvs %Util
                                                                                     Sat
                                                           rAvs
                                                 0.73
                                                          110.7
                                                                    110.7 0.00
83.72 0.07
02:20:44
                       0.08
                                        0.73
                lo
                                0.08
                                                                                    0.00
02:20:44
            enp0s3
                      87.63
                                1.84
                                                         1422.5
                                                                                    0.00
```

5. List current PCI devices on your device (hint: Ispci)

```
esraa@ubuntu:~$ lspci -vmm
Slot:
        00:00.0
Class:
        Host bridge
Vendor: Intel Corporation
Device: 440FX - 82441FX PMC [Natoma]
Rev:
        02
Slot:
        00:01.0
Class:
        ISA bridge
Vendor: Intel Corporation
Device: 82371SB PIIX3 ISA [Natoma/Triton II]
Slot:
        00:01.1
        IDE interface
Class:
Vendor: Intel Corporation
Device: 82371AB/EB/MB PIIX4 IDE
        01
Rev:
ProgIf: 8a
Slot:
        00:02.0
Class:
        VGA compatible controller
Vendor: VMware
Device: SVGA II Adapter
SVendor:
                VMware
SDevice:
                SVGA II Adapter
        00:03.0
Slot:
Class:
        Ethernet controller
```

6. List all files which are compressed by ZIP utilities

```
esraa@ubuntu:~$ ls | grep -e "\.zip"
esraa.zip
esraa@ubuntu:~$
```

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

```
esraa@ubuntu:~$ sudo grep "0x[0-9A-Z]" /var/log/syslog
[sudo] password for esraa:
Apr 2 02:02:52 ubuntu kernel: [ 113.034133] audit: type=1326 audit(1680393772
.628:51): auid=1003 uid=1003 gid=1004 ses=3 subj=snap.snapd-desktop-integration
.snapd-desktop-integration pid=1762 comm="snapd-desktop-i" exe="/snap/snapd-desktop-integration/57/usr/bin/snapd-desktop-integration" sig=0 arch=c000003e sysc
all=314 compat=0 ip=0x7f6d96666a3d code=0x50000
Apr 2 02:03:48 ubuntu kernel: [ 168.459165] audit: type=1326 audit(1680393828
.057:54): auid=1003 uid=1003 gid=1004 ses=3 subj=snap.firefox.firefox pid=2116
comm="firefox" exe="/snap/firefox/2391/usr/lib/firefox/firefox" sig=0 arch=c000
003e syscall=314 compat=0 ip=0x7ff3edf0073d code=0x50000
```