Identify the current USB devices (hint. : lsusb)

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

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

```
nehad@nehad-VirtualBox:~$ cat /proc/cpuinfo | grep processor | wc -l
1
```

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

```
nehad@nehad-VirtualBox:~$ sudo apt install sysstat
[sudo] password for nehad:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi i965-va-driver
  intel-media-va-driver libaacs0 libaom3 libass9 libavcodec58 libavformat58
  libavutil56 libbdplus0 libbluray2 libbs2b0 libchromaprint1 libcodec2-1.0
  libdav1d5 libflite1 libgme0 libgsm1 libgstreamer-plugins-bad1.0-0
  libigdgmm12 liblilv-0-0 libllvm15 libmfx1 libmysofa1 libnorm1 libopenmpt0
  libpgm-5.3-0 libpostproc55 librabbitmq4 librubberband2 libserd-0-0
  libshine3 libsnappy1v5 libsord-0-0 libsratom-0-0 libsrt1.4-gnutls
  libssh-gcrypt-4 libswresample3 libswscale5 libudfread0 libva-drm2
  libva-wayland2 libva-x11-2 libva2 libvdpau1 libvidstab1.1 libx265-199
  libxvidcore4 libzimg2 libzmq5 libzvbi-common libzvbi0 mesa-va-drivers
  mesa-vdpau-drivers pocketsphinx-en-us va-driver-all vdpau-driver-all
Use 'sudo apt autoremove' to remove them.
Suggested packages:
  isag
The following NEW packages will be installed:
  sysstat
```

```
nehad@nehad-VirtualBox:~$ iostat 2 5
Linux 5.19.0-38-generic (nehad-VirtualBox)        09 2023 ,أبر        _x86_64_        (
1 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.28    0.14    0.90    0.75    0.00   97.92

Device             tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read       kB_
wrtn      kB_dscd
loop0             0.00        0.00        0.00        0.00           17
    0         0
loop1             0.01        0.04        0.00        0.00          348
    0         0
loop10            0.15        1.77        0.00        0.00        14131
    0         0
loop11            0.07        0.78        0.00        0.00         6260
    0         0
loop12            0.01        0.05        0.00        0.00          364
    0         0
loop13            0.01        0.04        0.00        0.00          349
    0         0
loop14            0.01        0.05        0.00        0.00          362
    0         0
loop15            0.01        0.04        0.00        0.00          348
    0         0
loop16            0.09        3.01        0.00        0.00        24030
    0         0
```

measure the network activities using (hint: nicstat)

```
nehad@nehad-VirtualBox:~$ sudo apt install nicstat
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi i965-va-driver
  intel-media-va-driver libaacs0 libaom3 libass9 libavcodec58 libavformat58
  libavutil56 libbdplus0 libbluray2 libbs2b0 libchromaprint1 libcodec2-1.0
  libdav1d5 libflite1 libgme0 libgsm1 libgstreamer-plugins-bad1.0-0
  libigdgmm12 liblilv-0-0 libllvm15 libmfx1 libmysofa1 libnorm1 libopenmpt0
  libpgm-5.3-0 libpostproc55 librabbitmq4 librubberband2 libserd-0-0
  libshine3 libsnappy1v5 libsord-0-0 libsratom-0-0 libsrt1.4-gnutls
  libssh-gcrypt-4 libswresample3 libswscale5 libudfread0 libva-drm2
  libva-wayland2 libva-x11-2 libva2 libvdpau1 libvidstab1.1 libx265-199
  libxvidcore4 libzimg2 libzmq5 libzvbi-common libzvbi0 mesa-va-drivers
  mesa-vdpau-drivers pocketsphinx-en-us va-driver-all vdpau-driver-all
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  nicstat
0 upgraded, 1 newly installed, 0 to remove and 208 not upgraded.
Need to get 18.2 kB of archives.
After this operation, 54.3 kB of additional disk space will be used.
Get:1 http://eg.archive.ubuntu.com/ubuntu jammy/main amd64 nicstat amd64 1.95-1
build3 [18.2 kB]
```

```
nehad@nehad-VirtualBox:~$ nicstat
   Time      Int  rKB/s  wKB/s  rPk/s  wPk/s   rAvs   wAvs %Util   Sat
19:21:15       lo   0.00   0.00   0.02   0.02  89.46  89.46  0.00  0.00
19:21:15   enp0s3   0.10   0.01   0.11   0.09  952.8  92.20  0.00  0.00
```

List current PCI devices on your device (hint: lspci)

```
nehad@nehad-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 Control
ler (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 Cont
roller (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 Con
troller [AHCI mode] (rev 02)
```

List all files which are compressed by ZIP utilities

```
nehad@nehad-VirtualBox:~$ sudo find / -name "*.zip" -type f 2>/dev/null
/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/wizard/web/buttons/round-white.zip
/usr/share/libreoffice/share/config/images_yaru_mate_svg.zip
/usr/share/libreoffice/share/config/images_elementary_svg.zip
/usr/share/libreoffice/share/config/images_elementary.zip
/usr/share/libreoffice/share/config/images_breeze_dark.zip
/usr/share/libreoffice/share/config/images_colibre.zip
/usr/share/libreoffice/share/config/images_helpimg.zip
/usr/share/libreoffice/share/config/images_breeze_dark_svg.zip
/usr/share/libreoffice/share/config/images_breeze.zip
/usr/share/libreoffice/share/config/images_breeze_svg.zip
/usr/share/libreoffice/share/config/images_yaru_mate.zip
/usr/share/libreoffice/share/config/images_yaru_svg.zip
/usr/share/libreoffice/share/config/images_yaru.zip
```

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

```
nehad@nehad-VirtualBox:~$ sudo grep -e "0x" /var/log/syslog
Apr  9 16:22:16 nehad-VirtualBox kernel: [   49.566299] audit: type=1326 audit
1681050136.811:55): auid=1000 uid=1000 gid=1000 ses=2 subj=snap.snapd-desktop-
ntegration.snapd-desktop-integration pid=1178 comm="snapd-desktop-i" exe="/snap
/snapd-desktop-integration/57/usr/bin/snapd-desktop-integration" sig=0 arch=c0
0003e syscall=314 compat=0 ip=0x7f8cf944ca3d code=0x50000
Apr  9 16:22:20 nehad-VirtualBox kernel: [   52.277531] audit: type=1326 audit
1681050140.873:56): auid=1000 uid=1000 gid=1000 ses=2 subj=snap.snapd-desktop-
ntegration.snapd-desktop-integration pid=1253 comm="snapd-desktop-i" exe="/snap
/snapd-desktop-integration/57/usr/bin/snapd-desktop-integration" sig=0 arch=c0
0003e syscall=314 compat=0 ip=0x7fc195a12a3d code=0x50000
```