# **Lab1 Objectives:**

- 1. Identify the current USB devices (hint.: lsusb)
  - command:
    - > Isusb
  - screen shot:

```
mariam@mariam-VirtualBox:~/Desktop$ 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
```

- 2. Count how many CPUs (cores) on your device. (hint: /proc/cpuinfo)
  - commands:
    - cat /proc/cpuinfo | grep processor | wc -l
  - screen shot:

```
mariam@mariam-VirtualBox:~/Desktop$ cat /proc/cpuinfo | grep processor | wc -l 2
```

- 3. Take a snapshot of current disk statistics 5 times with 2 seconds interval. (hint: iostat)
  - commands:
    - > sudo apt install sysstat
    - > iostat -d 2 5
  - screen shot:

mariam@mariam-VirtualBox:~/Desktop\$ iostat -d 2 5 Linux 5.19.0-32-generic (mariam-VirtualBox) 01 2023 أبر					_x86_64_	(2 CPU)	
Device	tps	kB_read/s	kB_wrtn/s	kB_dscd/s	kB_read	kB_wrtn	kB_dscd
loop0							
loop1							
loop10							
loop11							
loop12							
loop13							
loop15							

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

- commands:
  - sudo apt install nicstat
  - sudo nicstat
- screen shot:

```
nariam@mariam-VirtualBox:~/
                             ctop$ sudo nicstat
                                  rPk/s
   Time
             Int rKB/s
                           wKB/s
                                          wPk/s
                                                   rAvs
                                                           wAvs %Util
                                                                        Sat
14:34:30
             lo
                   0.02
                           0.02
                                   0.17
                                           0.17
                                                  109.6
                                                          109.6 0.00
                                                                       0.00
          enp0s3
14:34:30
                   42.10
                            0.19
                                   29.58
                                           2.40 1457.6
                                                          82.90 0.03
                                                                       0.00
```

### 5. <u>List current PCI devices on your device (hint: lspci)</u>

- commands:
  - > Ispci
- screen shot:

```
mariam@mariam-VirtualBox:~/Desktop$ 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)
```

#### 6. List all files which are compressed by ZIP utilities

- commands:
  - sudo find / -name "\*.zip"
- screen shot:

```
/usr/lib/libreoffice/share/config/images_breeze_dark_svg.zip
/usr/lib/libreoffice/share/config/images_colibre.zip
/usr/lib/libreoffice/share/config/images_yaru_mate_svg.zip
/usr/lib/libreoffice/share/config/images_yaru.zip
/usr/lib/libreoffice/share/config/images_breeze.zip
/usr/lib/libreoffice/share/config/images_yaru_mate.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/simple.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/round-white.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/sukapura.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/elementary.zip
/usr/lib/libreoffice/share/config/images_elementary_svg.zip
```

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

- commands:
  - grep -e "0x" /var/log/syslog
- screen shot:

mariam@mariam-VirtualBox:~/Desktop\$ grep -e "0x" /var/log/syslog
Mar 28 14:16:46 mariam-VirtualBox kernel: [ 79.813981] audit: type=1326 audit(1680005806.468:53
): auid=1000 uid=1000 gid=1000 ses=3 subj=snap.snapd-desktop-integration.snapd-desktop-integration
 pid=1541 comm="snapd-desktop-i" exe="/snap/snapd-desktop-integration/49/usr/bin/snapd-desktop-integration" sig=0 arch=c0000003e syscall=314 compat=0 ip=0x7f9aa3c4573d code=0x50000
Mar 28 14:17:17 mariam-VirtualBox kernel: [ 110.420308] audit: type=1326 audit(1680005837.068:54
): auid=1000 uid=1000 gid=1000 ses=3 subj=snap.snap-store.snap-store pid=1887 comm="snap-store" exe="/snap/snap-store/638/usr/bin/snap-store" sig=0 arch=c0000003e syscall=314 compat=0 ip=0x7f84cd
99073d code=0x500000