1- Identify the current USB devices

```
samir@samir-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
samir@samir-VirtualBox:~$
```

2- Count how many cpu cores

```
samir@samir-VirtualBox:-$ cat /proc/cpuinfo
processor
               : 0
vendor id
               : GenuineIntel
cpu family
               : 6
model
               : 158
model name
               : Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz
stepping
               : 10
cpu MHz
               : 2208.000
cache size
               : 9216 KB
physical id
               : 0
siblings
               : 4
core id
               : 0
cpu cores
                : 4
apicid
               : 0
initial apicid : 0
fpu
                : yes
fpu_exception
               : yes
cpuid level
               : 22
               : yes
WP
flags
                : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx
n_freq pni pclmulqdq ssse3 cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx rdrand hyperviso
ear flush_l1d arch_capabilities
bugs
                : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit
                : 4416.00
bogomips
clflush size
                : 64
```

3-Take a snapshot of current disk statistics 5 times with 2 seconds

```
samir@samir-VirtualBox:-$ sudo apt-get install sysstat
[sudo] password for samir:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
    systemd-hwe-hwdb
Use 'sudo apt autoremove' to remove it.
Suggested packages:
    isag
The following NEW packages will be installed:
    sysstat
0 upgraded, 1 newly installed, 0 to remove and 259 not upgraded.
Need to get 487 kB of archives.
After this operation, 1,507 kB of additional disk space will be used.
Get:1 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 sysstat amd64 12.5.2-2ubuntu0.1 [487 kB]
Fetched 487 kB in 2s (217 kB/s)
Preconfiguring packages ...
```

4- Masure the network activities

```
samir@samir-VirtualBox:~$ iostat sda 2 5
Linux 5.19.0-32-generic (samir-VirtualBox)
                                               أبر, 2023 11
                                                                x86 64
                                                                               (4 CPU)
avg-cpu: %user %nice %system %iowait %steal
                                                 %idle
Device
                          kB_read/s
                                      kB_wrtn/s
                                                    kB dscd/s
                                                                                      kB dscd
                   tos
                                                                kB_read
                                                                            kB_wrtn
                  %nice %system %iowait %steal
                                                 %idle
avg-cpu:
         %user
Device
                          kB_read/s
                                      kB_wrtn/s
                                                   kB_dscd/s
                                                                                      kB_dscd
                   tps
                                                                kB_read
                                                                            kB_wrtn
avg-cpu: %user
                 %nice %system %iowait %steal
                                                 %idle
Device
                   tps
                          kB_read/s
                                      kB_wrtn/s
                                                   kB dscd/s
                                                                 kB_read
                                                                            kB_wrtn
                                                                                      kB dscd
                                                 %idle
avg-cpu: %user
                 %nice %system %iowait %steal
Device
                   tps
                          kB_read/s
                                      kB_wrtn/s
                                                    kB_dscd/s
                                                                 kB_read
                                                                            kB_wrtn
                                                                                      kB_dscd
avg-cpu:
                  %nice %system %iowait %steal
                                                 %idle
                          kB_read/s
                                      kB_wrtn/s
                                                   kB_dscd/s
                                                                kB read
                                                                                      kB dscd
Device
                                                                            kB_wrtn
                   tps
```

5- List current PCI devices

```
samir@samir-VirtualBox:~$ sudo apt install nicstat
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  systemd-hwe-hwdb
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  nicstat
0 upgraded, 1 newly installed, 0 to remove and 259 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 1.95-1build3 [18.2 kB]
Fetched 18.2 kB in 1s (18.4 kB/s)
Selecting previously unselected package nicstat.
(Reading database ... 199054 files and directories currently installed.)
Preparing to unpack .../nicstat_1.95-1build3_amd64.deb ...
Unpacking nicstat (1.95-1build3) ...
Setting up nicstat (1.95-1build3) .
```

```
samir@samir-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] (resamir@samir-VirtualBox:-$
```

7-