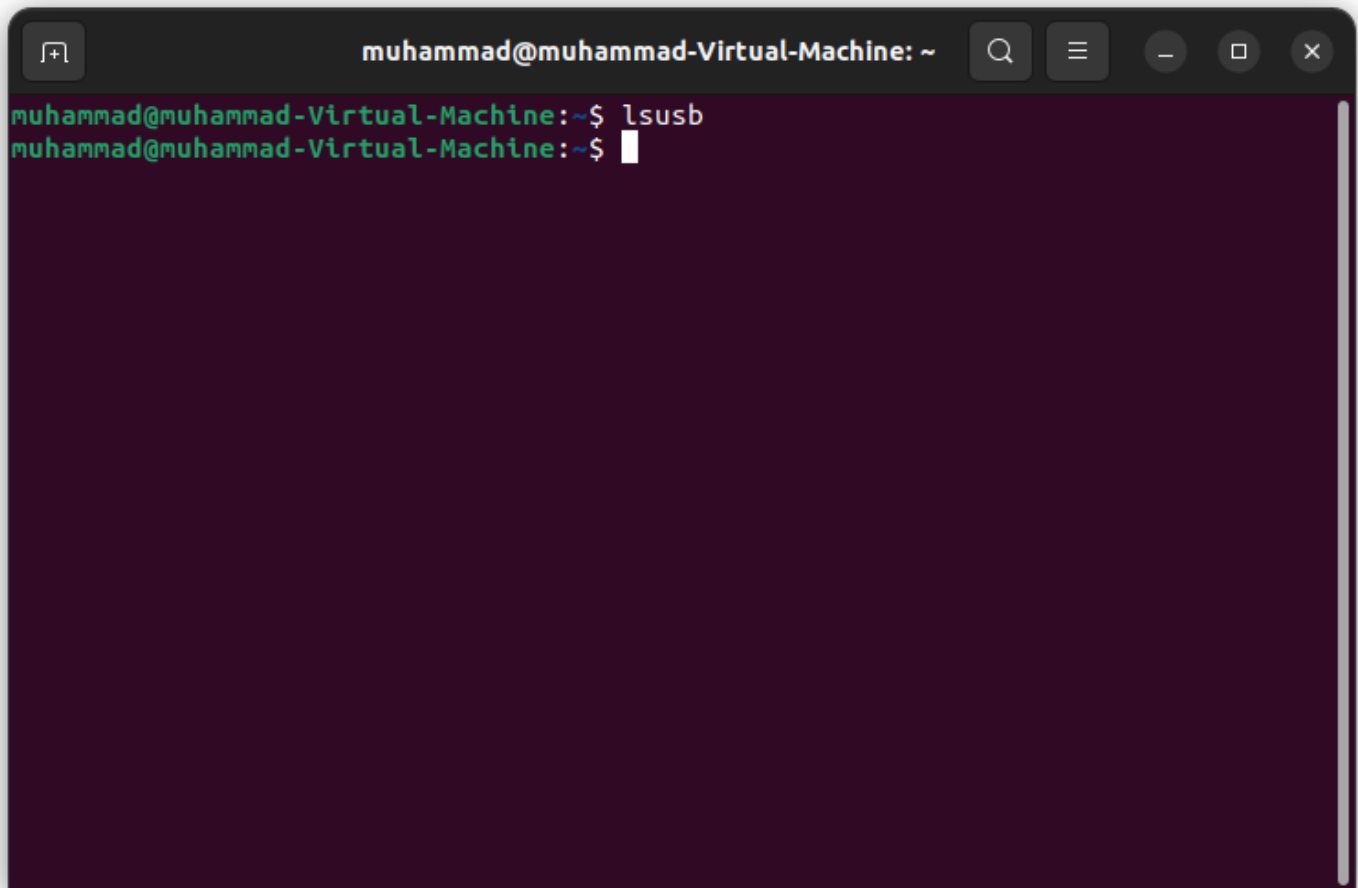


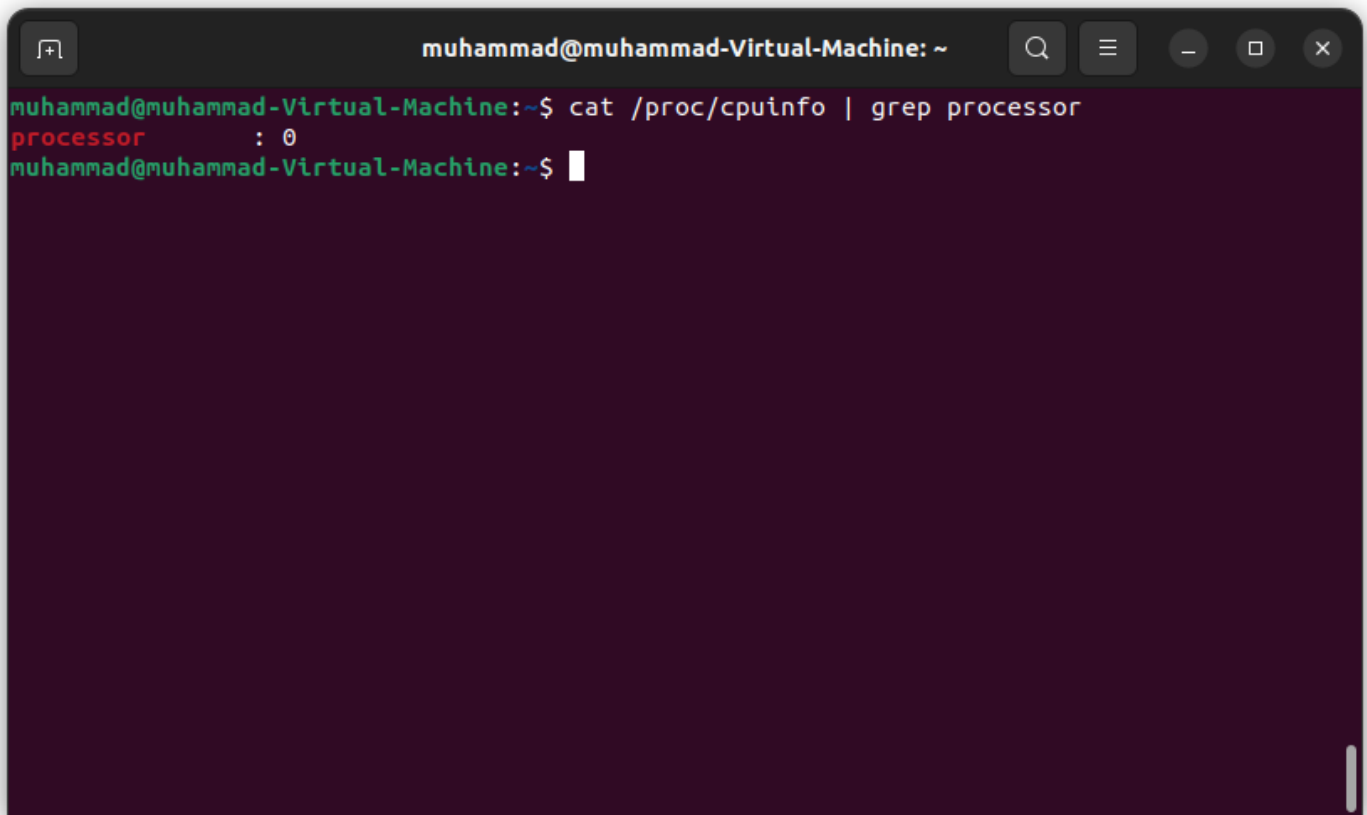
- Identify the current USB devices (hint. : `lsusb`)



```
muhammad@muhammad-Virtual-Machine: ~  
muhammad@muhammad-Virtual-Machine:~$ lsusb  
muhammad@muhammad-Virtual-Machine:~$
```

A terminal window titled "muhammad@muhammad-Virtual-Machine: ~" with standard window controls. The prompt is "muhammad@muhammad-Virtual-Machine:~\$". The command "lsusb" has been entered and the cursor is on the next line.

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



```
muhammad@muhammad-Virtual-Machine: ~  
muhammad@muhammad-Virtual-Machine:~$ cat /proc/cpuinfo | grep processor  
processor       : 0  
muhammad@muhammad-Virtual-Machine:~$
```

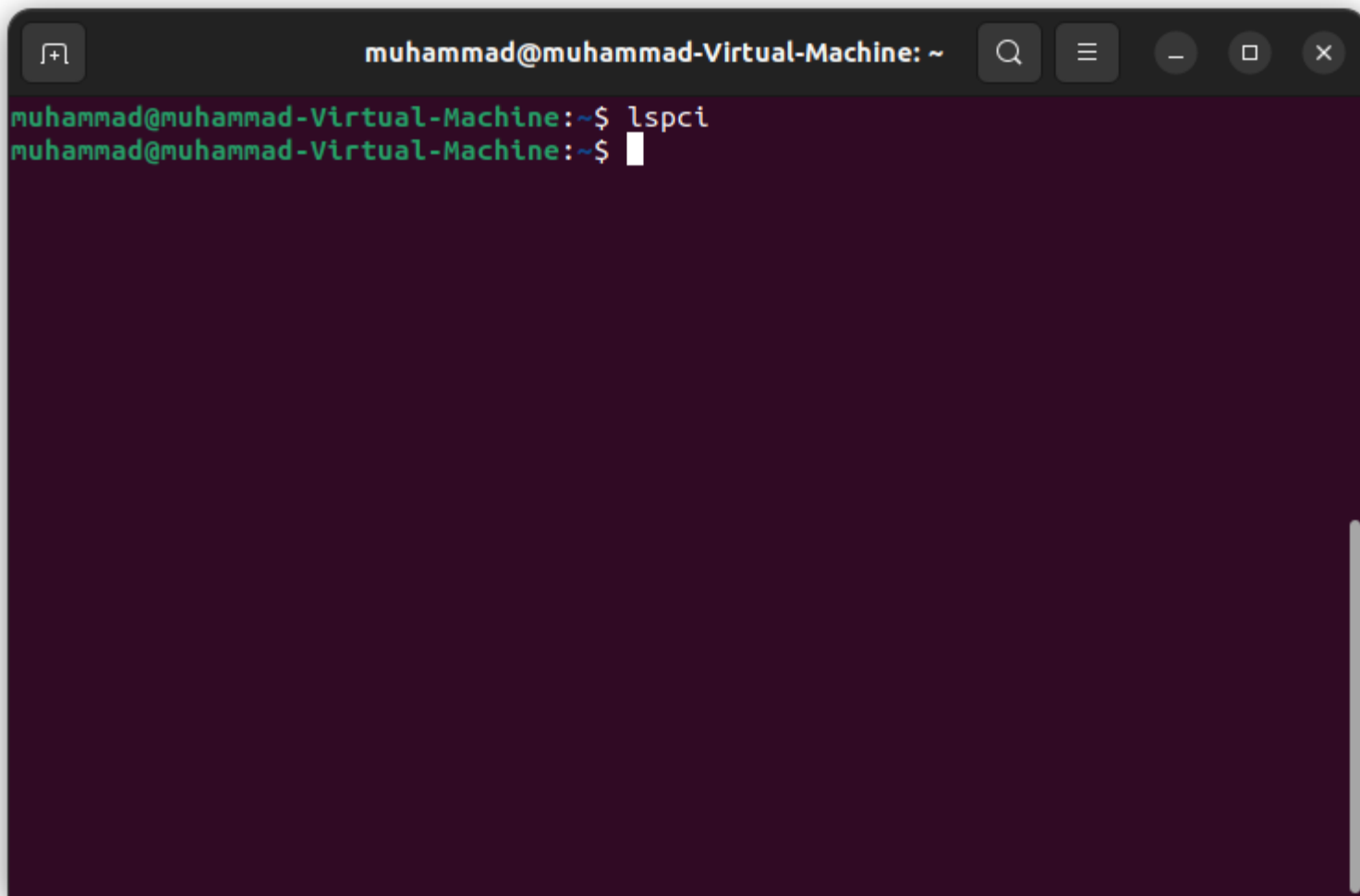
- Take a snapshot of current disk statistics 5 times with 2 seconds interval. (hint: iostat)

```
muhammad@muhammad-Virtual-Machine: ~  
muhammad@muhammad-Virtual-Machine:~$ iostat -d 2 5  
Linux 5.15.0-1033-azure (muhammad-Virtual-Machine)      04/01/2023      _x86_64_  
(1 CPU)  
  
Device      tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_w  
rtn    kB_dscd  
loop0      0.04      0.32      0.00      0.00      351  
0      0  
loop1      0.01      0.02      0.00      0.00      17  
0      0  
loop10     0.17      1.43      0.00      0.00     1565  
0      0  
loop11     0.04      0.32      0.00      0.00      349  
0      0  
loop12     0.04      0.33      0.00      0.00      362  
0      0  
loop13     1.29     47.49      0.00      0.00    52021  
0      0  
loop14     0.02      0.05      0.00      0.00      54  
0      0  
loop15     0.03      0.26      0.00      0.00      281  
0      0  
loop16     0.07      1.07      0.00      0.00     1169
```

- measure the network activities using (hint: `nicstat`)

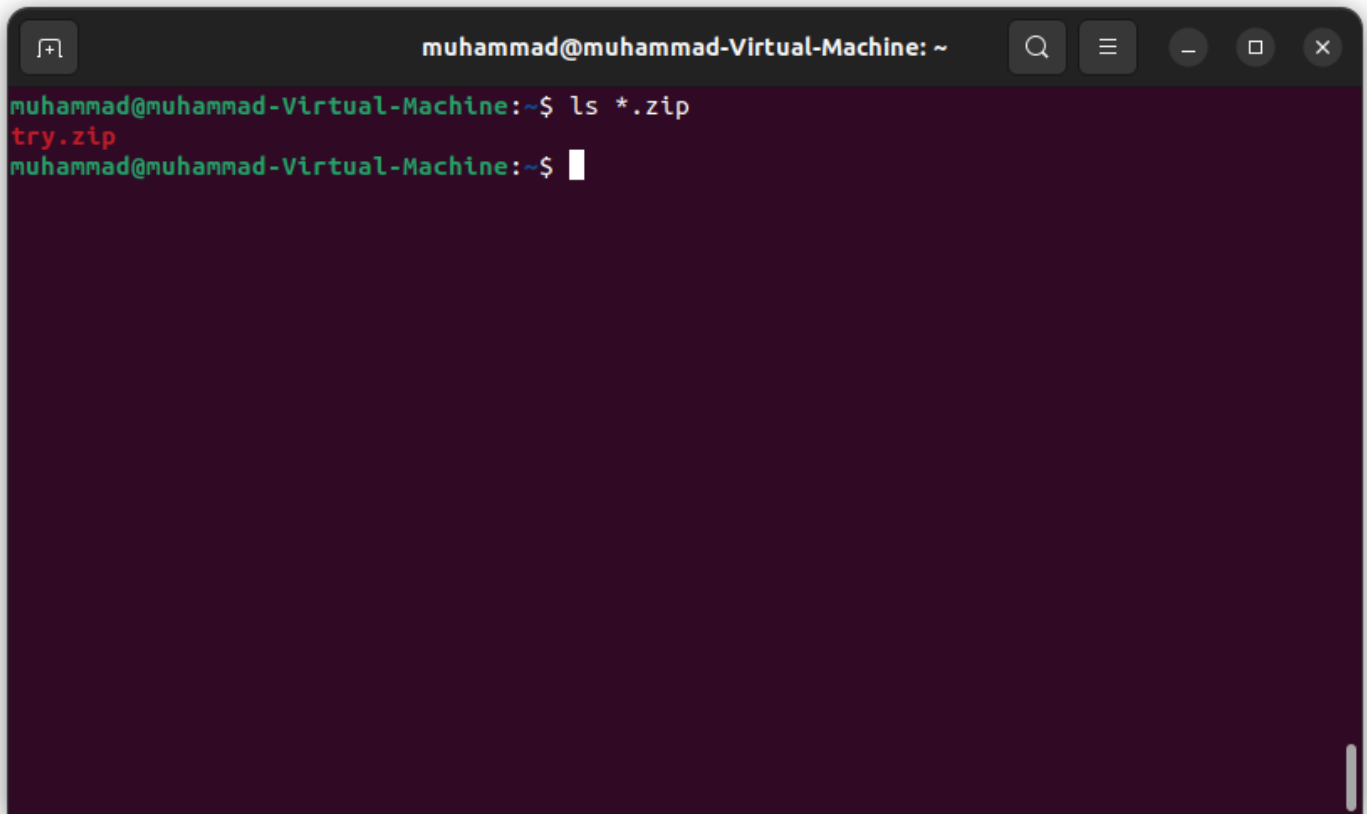
```
muhammad@muhammad-Virtual-Machine: ~  
muhammad@muhammad-Virtual-Machine:~$ nicstat  
Time      Int    rKB/s  wKB/s  rPk/s  wPk/s   rAvs    wAvs  %Util   Sat  
08:03:25   lo     0.04   0.04    0.21   0.21    183.6   183.6  0.00    0.00  
08:03:25  eth0   25.50   0.54   20.57   5.97   1269.7   92.71  0.00    0.00  
muhammad@muhammad-Virtual-Machine:~$
```

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

A terminal window with a dark background and light green text. The window title is "muhammad@muhammad-Virtual-Machine: ~". The prompt is "muhammad@muhammad-Virtual-Machine:~\$". The command "lspci" has been entered, and the cursor is at the end of the line. The window has standard Linux window controls (minimize, maximize, close) and a search icon in the title bar.

```
muhammad@muhammad-Virtual-Machine: ~  
muhammad@muhammad-Virtual-Machine:~$ lspci  
muhammad@muhammad-Virtual-Machine:~$
```

- List all files which are compressed by ZIP utilities



```
muhammad@muhammad-Virtual-Machine: ~  
muhammad@muhammad-Virtual-Machine:~$ ls *.zip  
try.zip  
muhammad@muhammad-Virtual-Machine:~$
```

A terminal window titled "muhammad@muhammad-Virtual-Machine: ~" with standard window controls. The prompt is "muhammad@muhammad-Virtual-Machine:~\$". The command "ls *.zip" is entered, and the output "try.zip" is displayed in red text. The prompt "muhammad@muhammad-Virtual-Machine:~\$" is shown again with a cursor.

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

```
muhammad@muhammad-Virtual-Machine: ~  
muhammad@muhammad-Virtual-Machine:~$ grep -e "0x" /var/log/syslog  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] x86/fpu: Supporting XSAV  
E feature 0x001: 'x87 floating point registers'  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] x86/fpu: Supporting XSAV  
E feature 0x002: 'SSE registers'  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] x86/fpu: Supporting XSAV  
E feature 0x004: 'AVX registers'  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] x86/fpu: Enabled xstate  
features 0x7, context size is 832 bytes, using 'standard' format.  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] BIOS-e820: [mem 0x000000  
0000000000-0x000000000009ffff] usable  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] BIOS-e820: [mem 0x000000  
00000c0000-0x000000000000ffff] reserved  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] BIOS-e820: [mem 0x000000  
0000100000-0x0000000000beee8fff] usable  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] BIOS-e820: [mem 0x000000  
00beee9000-0x0000000000beef1fff] ACPI data  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] BIOS-e820: [mem 0x000000  
00beef2000-0x0000000000bef1afff] reserved  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] BIOS-e820: [mem 0x000000  
00bef1b000-0x0000000000bff9afff] usable  
Mar  1 09:56:30 muhammad-Virtual-Machine kernel: [ 0.000000] BIOS-e820: [mem 0x000000  
00bff9b000-0x0000000000bfff2fff] reserved
```