

ASSIGNMENT-1

1 :- CPU information

command used

```
cat /proc/cpuinfo
```

```
shivangi@shivangi-VirtualBox:~$ cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 140
model name     : 11th Gen Intel(R) Core(TM) i5-1135G7 @ 2.40GHz
stepping       : 1
cpu MHz        : 2410.202
cache size     : 8192 KB
physical id    : 0
siblings       : 2
core id        : 0
cpu cores      : 2
apicid         : 0
initial apicid: 0
fpu            : yes
fpu_exception  : yes
cpuid level    : 22
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 rdtscp lm c
onstant tsc rep_good noopl xtopology nonstop_tsc cpuid tsc_known_freq pni pclmulqdq ssse3 cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt aes xsave
e avx rdrand hypervisor lahf_lm abm 3dnowprefetch invpcid_single fsgsbase avx2 invpcid rdseed clflushopt md_clear flush_l1d arch_capabilities
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs
bogomips       : 4838.40
clflush size   : 64
cache alignment: 64
address sizes  : 39 bits physical, 48 bits virtual
power management:

processor       : 1
vendor_id      : GenuineIntel
cpu family     : 6
model          : 140
model name     : 11th Gen Intel(R) Core(TM) i5-1135G7 @ 2.40GHz
```

2 :- IO mapped IO information

command used

```
sudo cat /proc/iomem
```

```

shivangi@shivangi-VirtualBox:~$ sudo cat /proc/iomem
[sudo] password for shivangi:
00000000-00000fff : Reserved
00001000-0009fbff : System RAM
0009fc00-0009ffff : Reserved
000a0000-000bffff : PCI Bus 0000:00
000c0000-000c7fff : Video ROM
000e2000-000ef3ff : Adapter ROM
000f0000-000fffff : Reserved
    000f0000-000fffff : System ROM
00100000-dfffffff : System RAM
    70400000-712025b6 : Kernel code
    71400000-71954fff : Kernel rodata
    71a00000-71d658ff : Kernel data
    7202a000-725fffff : Kernel bss
dfff0000-dfffffff : ACPI Tables
e0000000-fdffffff : PCI Bus 0000:00
    e0000000-e0ffffff : 0000:00:02.0
        e0000000-e0ffffff : vmwgfx probe
    f0000000-f01fffff : 0000:00:02.0
        f0000000-f01fffff : vmwgfx probe
    f0200000-f021ffff : 0000:00:03.0
        f0200000-f021ffff : e1000
    f0400000-f07fffff : 0000:00:04.0
        f0400000-f07fffff : vboxguest
    f0800000-f0803fff : 0000:00:04.0
    f0804000-f0804fff : 0000:00:06.0
        f0804000-f0804fff : ohci_hcd
    f0806000-f0807fff : 0000:00:0d.0
        f0806000-f0807fff : ahci
fec00000-fec00fff : Reserved
    fec00000-fec003ff : IOAPIC 0
fee00000-fee00fff : Local APIC
    fee00000-fee00fff : Reserved
fffc0000-ffffffff : Reserved
100000000-11f5fffff : System RAM
11f600000-11ffffff : RAM buffer

```

3 :- Memory mapped IO information

command used

```
sudo cat /proc/ioports
```

```

shivangi@shivangi-VirtualBox:~$ sudo cat /proc/ioports
0000-0cf7 : PCI Bus 0000:00
  0000-001f : dma1
  0020-0021 : pic1
  0040-0043 : timer0
  0050-0053 : timer1
  0060-0060 : keyboard
  0064-0064 : keyboard
  0070-0071 : rtc_cmos
    0070-0071 : rtc0
  0080-008f : dma page reg
  00a0-00a1 : pic2
  00c0-00df : dma2
  00f0-00ff : fpu
  0170-0177 : 0000:00:01.1
    0170-0177 : ata_piix
  01f0-01f7 : 0000:00:01.1
    01f0-01f7 : ata_piix
  0376-0376 : 0000:00:01.1
    0376-0376 : ata_piix
  03c0-03df : vga+
  03f6-03f6 : 0000:00:01.1
    03f6-03f6 : ata_piix
0cf8-0cff : PCI conf1
0d00-ffff : PCI Bus 0000:00
  4000-403f : 0000:00:07.0
    4000-4003 : ACPI PM1a_EVT_BLK
    4004-4005 : ACPI PM1a_CNT_BLK
    4008-400b : ACPI PM_TMR
    4020-4021 : ACPI GPE0_BLK
  4100-410f : 0000:00:07.0
    4100-4108 : piix4_smbus
  d000-d00f : 0000:00:01.1
    d000-d00f : ata_piix
  d010-d01f : 0000:00:02.0
    d010-d01f : vmwgfx probe
  d020-d027 : 0000:00:03.0
    d020-d027 : e1000

```

4 :- Linux version information

command used

```
uname -ra
```

```

shivangi@shivangi-VirtualBox:~$ uname -ra
Linux shivangi-VirtualBox 5.11.0-38-generic #42-20.04.1-Ubuntu SMP Tue Sep 28 20:41:07 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
shivangi@shivangi-VirtualBox:~$

```

5 :- Linux version information

command used

```
uname -r
```

```
shivangi@shivangi-VirtualBox:~$ uname -r  
5.11.0-38-generic  
shivangi@shivangi-VirtualBox:~$
```

6 :- Linux distribution information

command used

```
lsb_release -a
```

```
shivangi@shivangi-VirtualBox:~$ lsb_release -a  
No LSB modules are available.  
Distributor ID: Ubuntu  
Description:    Ubuntu 20.04.3 LTS  
Release:        20.04  
Codename:       focal  
shivangi@shivangi-VirtualBox:~$
```