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Practical no.-10

```
vnct8x@kbp-1: ~  
guest-vnct8x@kbp-1:~$ uname -r  
4.15.0-142-generic  
guest-vnct8x@kbp-1:~$ lsmod  
Module                Size  Used by  
input_leds            16384  0  
snd_hda_codec_hdmi    49152  1  
snd_hda_codec_realtek 106496  1  
snd_hda_codec_generic 73728  1 snd_hda_codec_realtek  
snd_hda_intel         45056  10  
snd_hda_codec        126976  4 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec_realtek  
snd_hda_core          81920  5 snd_hda_codec_generic,snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek  
snd_hwdep             20480  1 snd_hda_codec  
snd_pcm              98304  4 snd_hda_codec_hdmi,snd_hda_intel,snd_hda_codec,snd_hda_core  
snd_seq_midi          16384  0  
snd_seq_midi_event    16384  1 snd_seq_midi  
dcdbas               16384  0  
snd_rawmidi           32768  1 snd_seq_midi  
intel_rapl            20480  0  
x86_pkg_temp_thermal  16384  0  
intel_powerclamp      16384  0  
coretemp             16384  0  
snd_seq              65536  2 snd_seq_midi,snd_seq_midi_event  
snd_seq_device        16384  3 snd_seq,snd_seq_midi,snd_rawmidi  
kvm_intel            217088  0  
kvm                  614400  1 kvm_intel  
irqbypass            16384  1 kvm  
crc10dif_pclmul       16384  0  
crc32_pclmul          16384  0  
ghash_clmulni_intel   16384  0  
pcbc                 16384  0  
aesni_intel          188416  0  
aes_x86_64           20480  1 aesni_intel  
crypto_simd           16384  1 aesni_intel  
glue_helper           16384  1 aesni_intel  
cryptd               24576  3 crypto_simd,ghash_clmulni_intel,aesni_intel  
intel_cstate          20480  0  
intel_rapl_perf       16384  0  
snd_timer            32768  2 snd_seq,snd_pcm  
lpc_ich              24576  0  
snd                  81920  31 snd_hda_codec_generic,snd_seq,snd_seq_device,snd_hda_codec_hdmi,snd_hwdep,snd_hda_intel,snd_hda_codec,snd_hda_codec_realtek,snd_timer,snd_pcm,snd_rawmidi  
mei_me               40960  0  
shpchp               36864  0
```

```
vnct8x@kbp-1: ~  
guest-vnct8x@kbp-1:~$ free -m  
              total        used        free      shared  buff/cache   available  
Mem:          7895         1922         4224          682         1748         4985  
Swap:           974           0           974  
guest-vnct8x@kbp-1:~$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
udev            3.9G   0    3.9G   0% /dev  
tmpfs           790M   37M  753M   5% /run  
/dev/sda1       458G   6.8G  428G   2% /  
tmpfs           3.9G  392K   3.9G   1% /dev/shm  
tmpfs           5.0M   4.0K   5.0M   1% /run/lock  
tmpfs           3.9G   0    3.9G   0% /sys/fs/cgroup  
tmpfs           790M   76K   790M   1% /run/user/1000  
none            3.9G  189M   3.7G   5% /tmp/guest-vnct8x  
tmpfs           790M  100K   790M   1% /run/user/970  
guest-vnct8x@kbp-1:~$ vmstat  
procs -----memory----- --swap--  -----io----- -system--  -----cpu-----  
r  b  swpd  free  buff  cache  si  so   bi  bo   in  cs us sy id wa st  
0  0    0 4242416 106144 1690728  0  0   229  75 280 965 7 1 88 4 0  
guest-vnct8x@kbp-1:~$
```

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nct8x@kbp-1: ~

guest-vnct8x@kbp-1:~\$ top

```
top - 16:22:03 up 14 min, 2 users, load average: 1.42, 0.82, 0.47
Tasks: 260 total, 3 running, 209 sleeping, 0 stopped, 0 zombie
%Cpu(s): 16.4 us, 1.5 sy, 0.0 ni, 81.7 id, 0.3 wa, 0.0 hi, 0.1 si, 0.0 st
KiB Mem : 8085460 total, 4287216 free, 2024872 used, 1773372 buff/cache
KiB Swap: 998396 total, 998396 free, 0 used. 5062344 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
3848	guest-v+	20	0	3396976	737520	140776	R	59.5	9.1	1:41.10	Web Content
3617	guest-v+	20	0	3052220	325348	160692	S	7.0	4.0	0:42.33	firefox
3813	guest-v+	20	0	2722696	165560	104788	S	6.6	2.0	0:01.19	Web Content
272	root	20	0	0	0	0	R	0.7	0.0	0:01.25	systemd-journal
2050	root	20	0	0	0	0	S	0.7	0.0	0:10.50	Xorg
34	root	20	0	0	0	0	S	0.3	0.0	0:00.14	kauditd
2679	guest-v+	20	0	1494040	134556	63916	S	0.3	1.7	0:12.03	compiz
3461	guest-v+	20	0	590972	38624	28440	S	0.3	0.5	0:02.33	gnome-terminal-
3481	guest-v+	20	0	41940	3892	3132	S	0.3	0.0	0:01.16	top
1	root	20	0	0	0	0	S	0.0	0.0	0:01.13	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	20	0	0	0	0	I	0.0	0.0	0:00.07	kworker/0:0
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
7	root	20	0	0	0	0	S	0.0	0.0	0:00.01	ksoftirqd/0
8	root	20	0	0	0	0	I	0.0	0.0	0:00.42	rcu_sched
9	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_bh
10	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
11	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	watchdog/0
12	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
13	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/1
14	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	watchdog/1
15	root	rt	0	0	0	0	S	0.0	0.0	0:00.03	migration/1
16	root	20	0	0	0	0	S	0.0	0.0	0:00.02	ksoftirqd/1
18	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/1:0H
19	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/2
20	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	watchdog/2
21	root	rt	0	0	0	0	S	0.0	0.0	0:00.03	migration/2
22	root	20	0	0	0	0	S	0.0	0.0	0:00.01	ksoftirqd/2
24	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/2:0H
25	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/3
26	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	watchdog/3
27	root	rt	0	0	0	0	S	0.0	0.0	0:00.03	migration/3
28	root	20	0	0	0	0	S	0.0	0.0	0:00.00	ksoftirqd/3