CISC 220 Assignment 2
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CISC 220 Assignment 2 Q3

Screenshot 1

```
root@ubuntu:/home/kevin# df -h
Filesystem                  Size  Used Avail Use% Mounted on
udev                        2.0G     0  2.0G   0% /dev
tmpfs                       396M  5.7M  390M   2% /run
/dev/mapper/ubuntu--vg-root  1.7G  1.3G  391M  77% /
tmpfs                       2.0G     0  2.0G   0% /dev/shm
tmpfs                       5.0M     0  5.0M   0% /run/lock
tmpfs                       2.0G     0  2.0G   0% /sys/fs/cgroup
/dev/sda1                   472M   55M  393M  13% /boot
/dev/mapper/ubuntu--vg-home  1.6G  2.6M  1.5G   1% /home
tmpfs                       100K     0  100K   0% /run/lxcfs/controllers
tmpfs                       396M     0  396M   0% /run/user/1000
root@ubuntu:/home/kevin# lsblk
NAME                  MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda                     8:0    0    4G  0 disk
├─sda1                  8:1    0  487M  0 part /boot
├─sda2                  8:2    0    1K  0 part
└─sda5                  8:5    0  3.5G  0 part
  ├─ubuntu--vg-root   252:0    0  1.8G  0 lvm  /
  ├─ubuntu--vg-swap_1 252:1    0  112M  0 lvm  [SWAP]
  └─ubuntu--vg-home   252:2    0  1.7G  0 lvm  /home
sdb                     8:16   0    1G  0 disk
sr0                    11:0    1 1024M  0 rom
```

`lsblk` shows the new hard disk. It is called sdb and is located at /dev/sdb

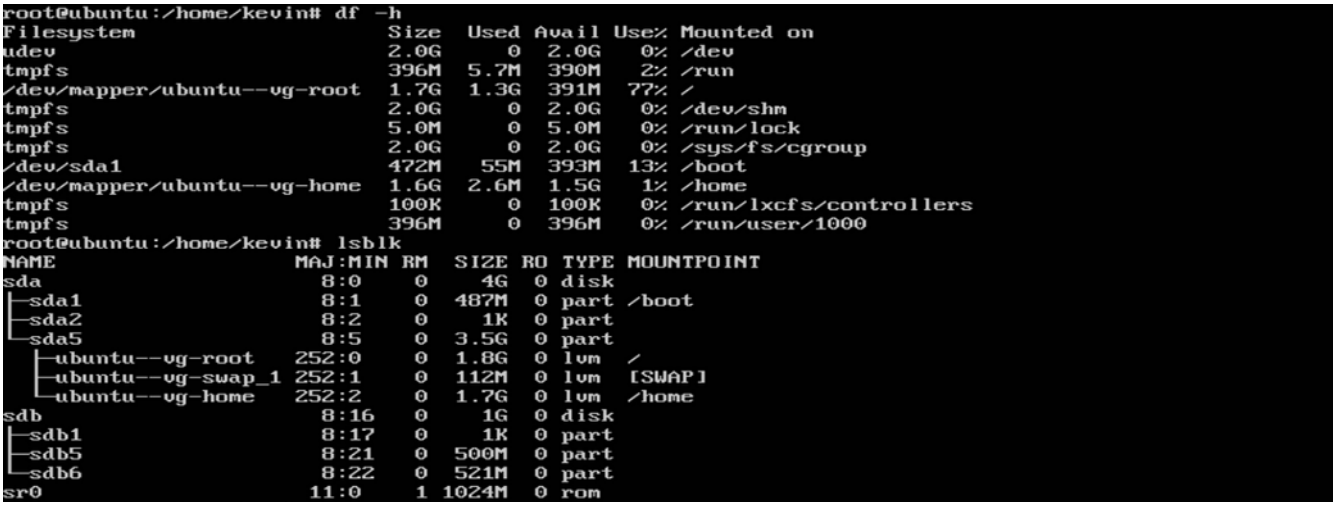
Screenshot 2

```
Command (m for help): p

Disk /dev/sdb: 1 GiB, 1073741824 bytes, 2097152 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0xbc82fb7a

Device     Boot   Start     End Sectors  Size Id Type
/dev/sdb1          2048 2097151 2095104 1023M  5 Extended
/dev/sdb5          4096 1028095 1024000  500M 83 Linux
/dev/sdb6       1030144 2097151 1067008  521M 83 Linux
```

Screenshot 3



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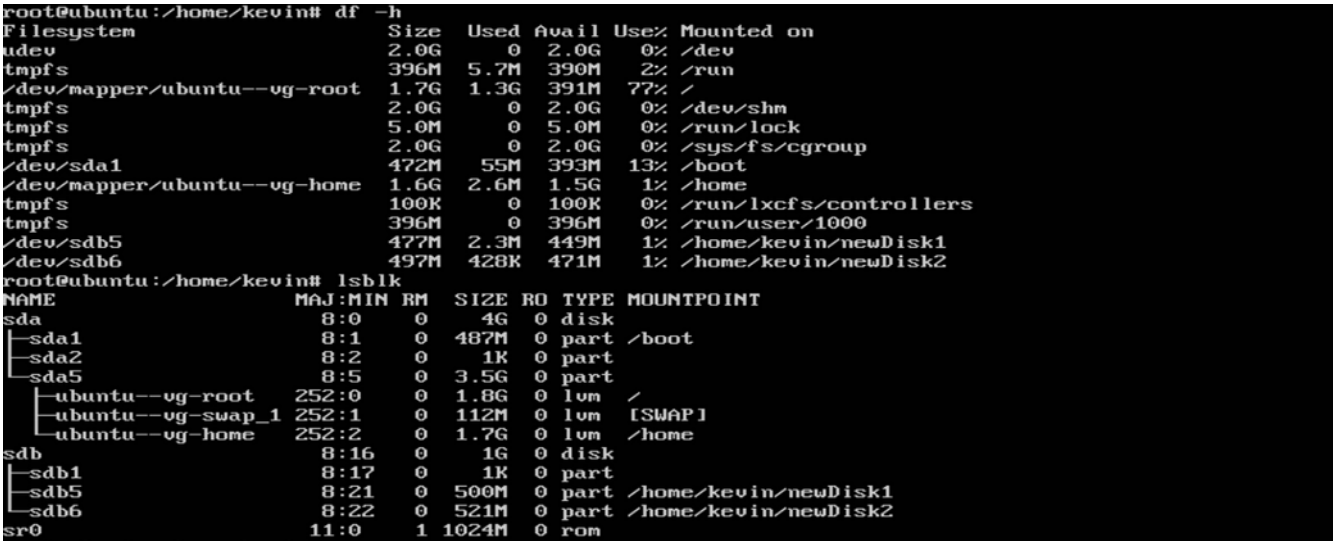
/dev/mapper/ubuntu--vg-root        1.7G  1.3G  391M  77% /
tmpfs                              2.0G     0  2.0G   0% /dev/shm
tmpfs                              5.0M     0  5.0M   0% /run/lock
tmpfs                              2.0G     0  2.0G   0% /sys/fs/cgroup
/dev/sda1                          472M   55M  393M  13% /boot
/dev/mapper/ubuntu--vg-home        1.6G  2.6M  1.5G   1% /home
tmpfs                              100K     0  100K   0% /run/lxcfs/controllers
tmpfs                              396M     0  396M   0% /run/user/1000
root@ubuntu:/home/kevin# lsblk
NAME                      MAJ:MIN RM   SIZE RO TYPE MOUNTPOINT
sda                         8:0    0     4G  0 disk
├─sda1                      8:1    0   487M  0 part /boot
├─sda2                      8:2    0     1K  0 part
└─sda5                      8:5    0   3.5G  0 part
  ├─ubuntu--vg-root       252:0    0   1.8G  0 lvm  /
  ├─ubuntu--vg-swap_1     252:1    0   112M  0 lvm  [SWAP]
  └─ubuntu--vg-home       252:2    0   1.7G  0 lvm  /home
sdb                         8:16   0     1G  0 disk
├─sdb1                      8:17   0     1K  0 part
├─sdb5                      8:21   0   500M  0 part
└─sdb6                      8:22   0   521M  0 part
sr0                        11:0    1  1024M  0 rom
```

`lsblk` shows the new disk again called sdb. The notable difference is now you can see the partitions made on sdb.

Screenshot 4



```
root@ubuntu:/home/kevin# df -h
Filesystem                         Size  Used Avail Use% Mounted on
udev                               2.0G     0  2.0G   0% /dev
tmpfs                              396M  5.7M  390M   2% /run
/dev/mapper/ubuntu--vg-root        1.7G  1.3G  391M  77% /
tmpfs                              2.0G     0  2.0G   0% /dev/shm
tmpfs                              5.0M     0  5.0M   0% /run/lock
tmpfs                              2.0G     0  2.0G   0% /sys/fs/cgroup
/dev/sda1                          472M   55M  393M  13% /boot
/dev/mapper/ubuntu--vg-home        1.6G  2.6M  1.5G   1% /home
tmpfs                              100K     0  100K   0% /run/lxcfs/controllers
tmpfs                              396M     0  396M   0% /run/user/1000
/dev/sdb5                          477M  2.3M  449M   1% /home/kevin/newDisk1
/dev/sdb6                          497M  428K  471M   1% /home/kevin/newDisk2
root@ubuntu:/home/kevin# lsblk
NAME                      MAJ:MIN RM   SIZE RO TYPE MOUNTPOINT
sda                         8:0    0     4G  0 disk
├─sda1                      8:1    0   487M  0 part /boot
├─sda2                      8:2    0     1K  0 part
└─sda5                      8:5    0   3.5G  0 part
  ├─ubuntu--vg-root       252:0    0   1.8G  0 lvm  /
  ├─ubuntu--vg-swap_1     252:1    0   112M  0 lvm  [SWAP]
  └─ubuntu--vg-home       252:2    0   1.7G  0 lvm  /home
sdb                         8:16   0     1G  0 disk
├─sdb1                      8:17   0     1K  0 part
├─sdb5                      8:21   0   500M  0 part /home/kevin/newDisk1
└─sdb6                      8:22   0   521M  0 part /home/kevin/newDisk2
sr0                        11:0    1  1024M  0 rom
```

Now you can see the two logical partitions `/dev/sdb5` and `/dev/sdb6` in `df -h` because they are mounted, as well as in `lsblk` (which also shows their mount point). Again, the hard disk itself is shown in `lsblk` as `sdb`

Screenshot 5