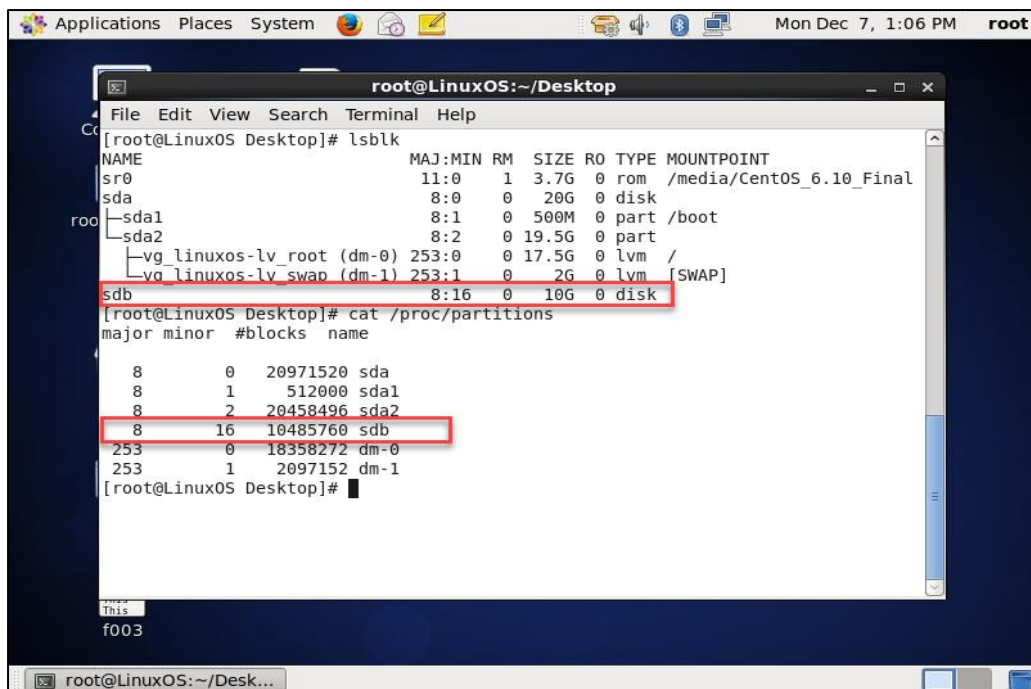
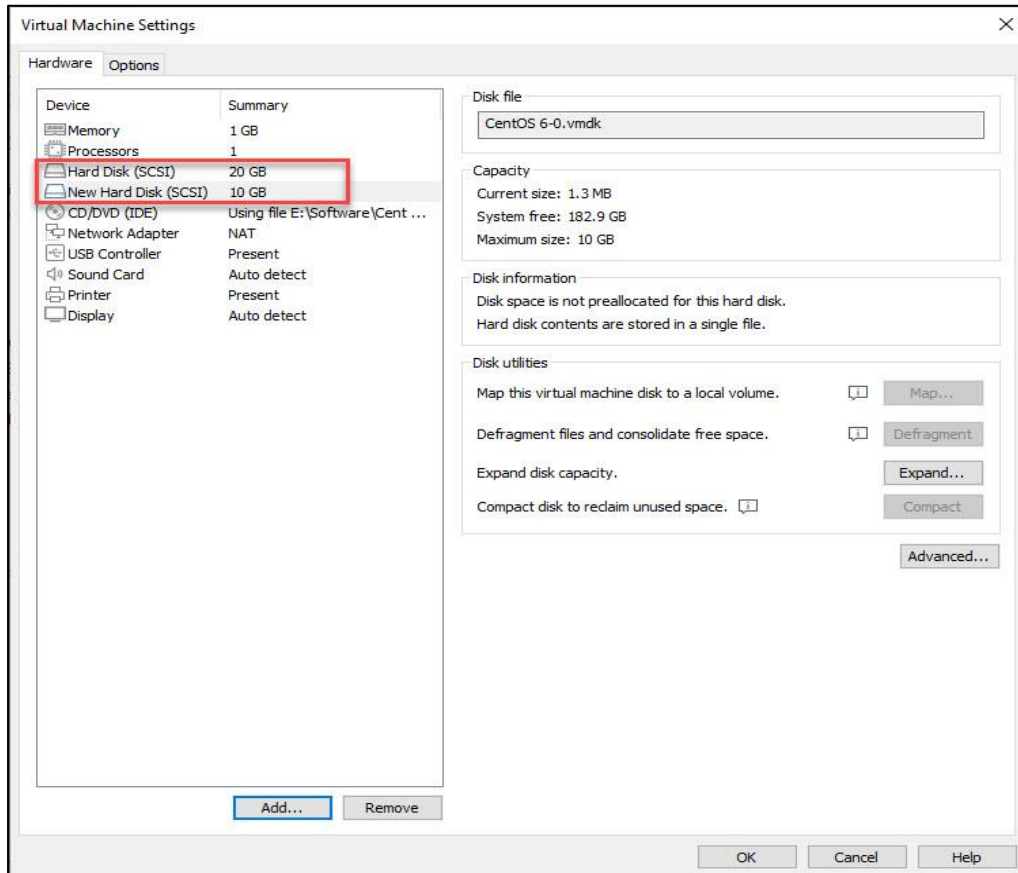


# Linux Administration

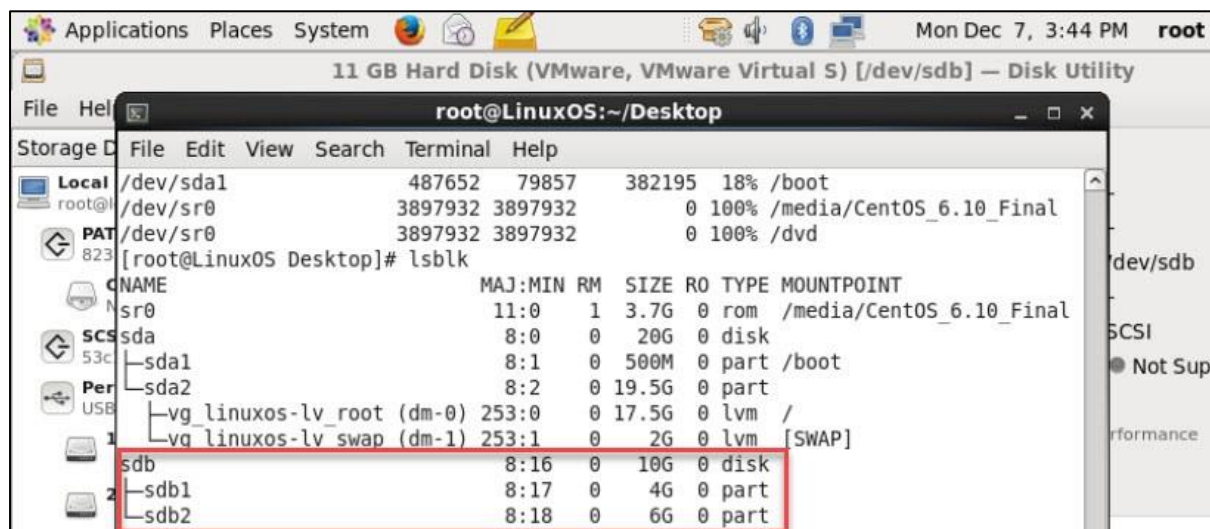
## Assignment Day 5

### SS(Screenshot) 1 : Add a 10GB disk to the CentOS



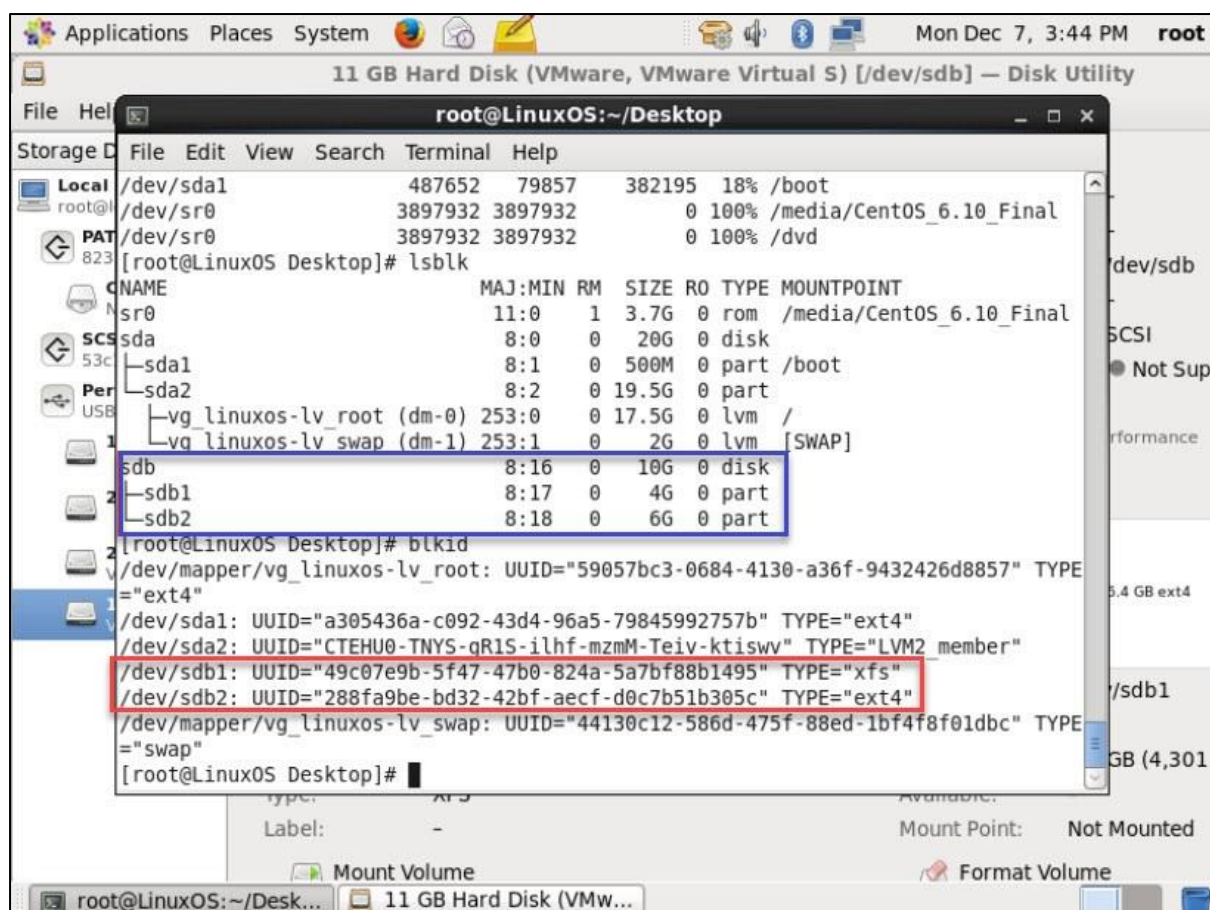
Sr. No.	Device	Name	Size
1.	New Hard Disk(SCSI)	sdb	10GB

## SS 2 : Create 2 Partitions 4GB and 6GB of Space respectively



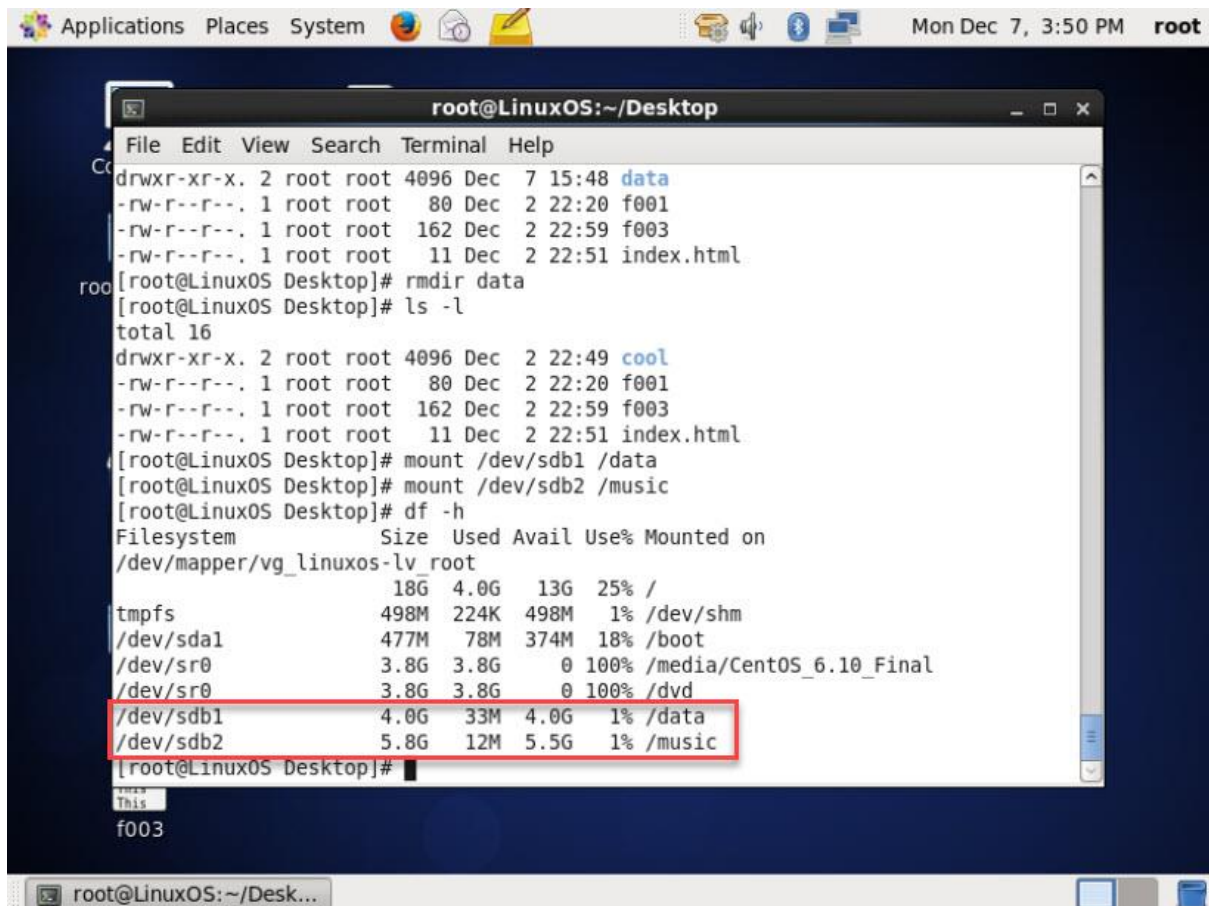
Sr. No.	Partition Name	Size
1.	sdb1	4GB
2	sdb2	6GB

## SS 3 : Format 4GB with xfs and 6GB with ext4 file system



Sr. No.	Partition Name	Size	File System Type
1.	sdb1	4GB	xfs
2.	sdb2	6GB	ext4

## SS 4 : Mount 4GB and 6GB in /data and /music directory respectively



```
root@LinuxOS:~/Desktop
File Edit View Search Terminal Help
drwxr-xr-x. 2 root root 4096 Dec 7 15:48 data
-rw-r--r--. 1 root root 80 Dec 2 22:20 f001
-rw-r--r--. 1 root root 162 Dec 2 22:59 f003
-rw-r--r--. 1 root root 11 Dec 2 22:51 index.html
[root@LinuxOS Desktop]# rmdir data
[root@LinuxOS Desktop]# ls -l
total 16
drwxr-xr-x. 2 root root 4096 Dec 2 22:49 cool
-rw-r--r--. 1 root root 80 Dec 2 22:20 f001
-rw-r--r--. 1 root root 162 Dec 2 22:59 f003
-rw-r--r--. 1 root root 11 Dec 2 22:51 index.html
[root@LinuxOS Desktop]# mount /dev/sdb1 /data
[root@LinuxOS Desktop]# mount /dev/sdb2 /music
[root@LinuxOS Desktop]# df -h
Filesystem              Size  Used Avail Use% Mounted on
/dev/mapper/vg_linuxos-lv_root
                        18G   4.0G   13G   25% /
tmpfs                   498M  224K  498M   1% /dev/shm
/dev/sda1                477M   78M  374M  18% /boot
/dev/sr0                 3.8G   3.8G   0 100% /media/CentOS_6.10_Final
/dev/sr0                 3.8G   3.8G   0 100% /dvd
/dev/sdb1                4.0G   33M   4.0G   1% /data
/dev/sdb2                5.8G   12M   5.5G   1% /music
[root@LinuxOS Desktop]#
```

Sr. No.	Partition Name	Size Available	Mounted on
1.	sdb1	4.0 GB	/data
2	sdb2	5.5 GB	/music

## SS 5 : Create one file of 1GB in each of the mount point created above

```

root@LinuxOS:/music
File Edit View Search Terminal Help
[root@LinuxOS Desktop]# cd /data
[root@LinuxOS data]# dd if=/dev/zero of=testfile bs=1024 count=1024000
1024000+0 records in
1024000+0 records out
1048576000 bytes (1.0 GB) copied, 16.1908 s, 64.8 MB/s
[root@LinuxOS data]# ls
testfile
[root@LinuxOS data]# ls -l
total 1024000
-rw-r--r--. 1 root root 1048576000 Dec 7 23:30 testfile
[root@LinuxOS data]# cd
[root@LinuxOS ~]# cd Desktop
[root@LinuxOS Desktop]# cd /music
[root@LinuxOS music]# dd if=/dev/zero of=testfile bs=1024 count=1024000
1024000+0 records in
1024000+0 records out
1048576000 bytes (1.0 GB) copied, 19.1017 s, 54.9 MB/s
[root@LinuxOS music]# ls -l
total 1024020
drwx-----. 2 root root 16384 Dec 7 15:38 lost+found
-rw-r--r--. 1 root root 1048576000 Dec 7 23:31 testfile
[root@LinuxOS music]#
  
```

Sr. No.	File Name	File Size	Directory
1.	testfile	1.0 GB	/data
2	testfile	1.0 GB	/music

## SS 6: Verify the disk Consumption & disk space free in the mounted partitions

```

root@LinuxOS:~/Desktop
File Edit View Search Terminal Help
[root@LinuxOS Desktop]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/vg_linuxos-lv_root
                18G   4.0G   13G   25% /
tmpfs            498M  556K  498M   1% /dev/shm
/dev/sda1        477M   78M  374M  18% /boot
/dev/sr0         3.8G   3.8G   0 100% /media/CentOS_6.10_Final
/dev/sr0         3.8G   3.8G   0 100% /dvd
/dev/sdb1        4.0G   1.1G   3.0G  26% /data
/dev/sdb2        5.8G 1012M   4.5G  19% /music
[root@LinuxOS Desktop]#
  
```

Below table shows the disk size before file creation and after file creation:

Sr. No.	Partition Name	Previous Size	Size Available	Mounted on
1.	sdb1	4.0 GB	3.0 GB	/data
2	sdb2	5.5GB	4.5 GB	/music

-----Assignment Day 5 Completed-----