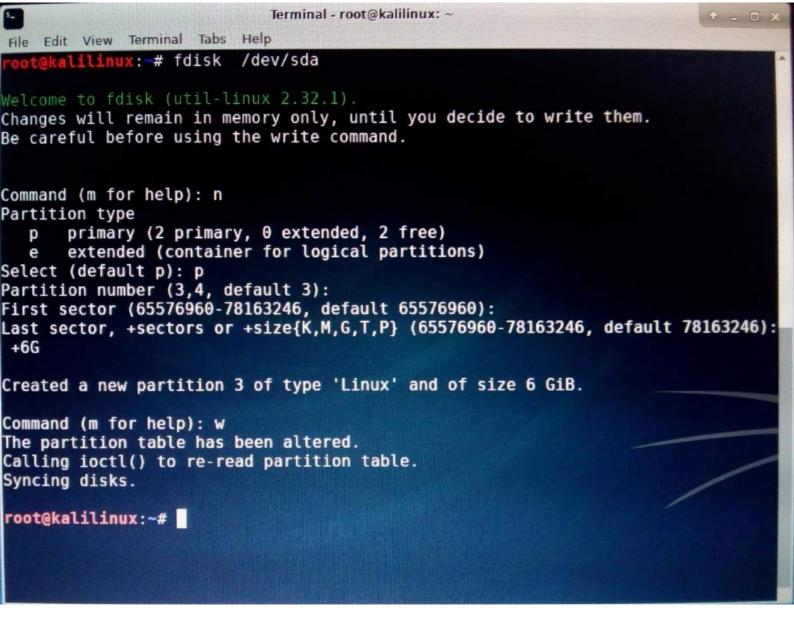


Adding 10 gb disk(it's exactly 10gb.out of 40,37.7 is usable in that I took 10gb, remaining is 27.7gb).

2) Create 2 Partitions 4GB and 6GB of Space respectively.

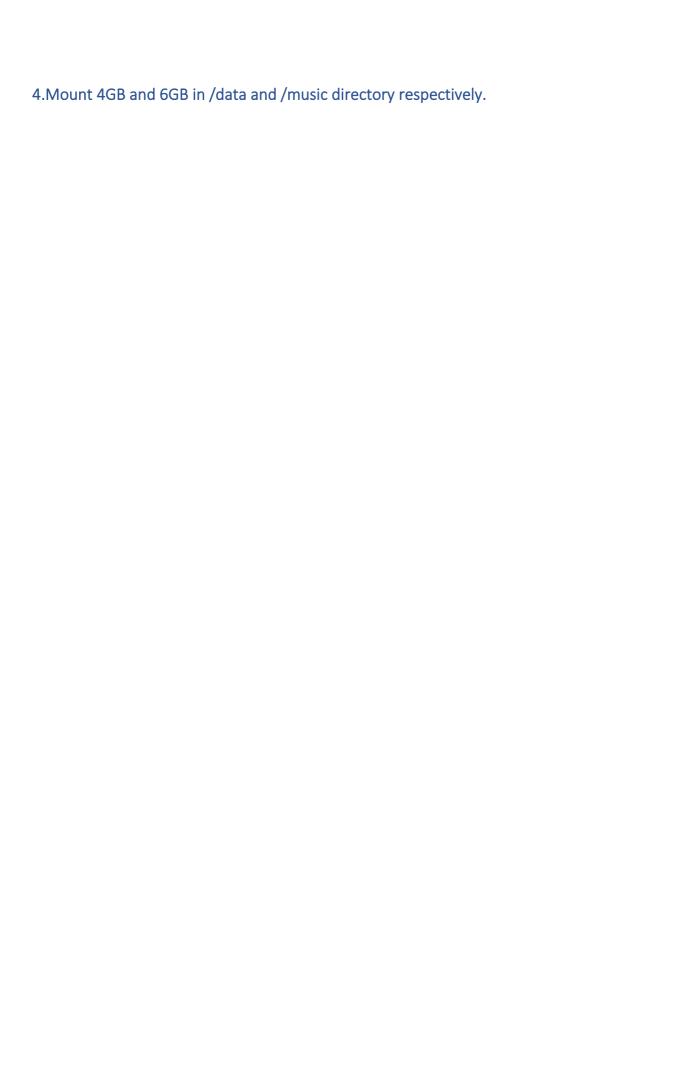
```
Terminal - root@kalilinux: ~
File Edit View Terminal Tabs Help
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help): n
Partition type
       primary (1 primary, 0 **pxtended, 3 free)
       extended (container for logical partitions)
Select (default p): p
Partition number (2-4, default 2):
First sector (57188352-78163246, default 57188352):
Last sector, +sectors or +size{K,M,G,T,P} (57188352-78163246, default 78163246);
+4G
Created a new partition 2 of type 'Linux' and of size 4 GiB.
Command (m for help): p
Disk /dev/sda: 37.3 GiB, 40019582464 bytes, 78163247 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: 0xcbdfcbdf
Device
           Boot
                              End
                                    Sectors Size Id Type
                   Start
/dev/sda1
                    2048 57188351 57186304 27.3G 7 HPFS/NTFS/exFAT
/dev/sda2
                57188352 65576959
                                    8388608
                                              4G 83 Linux
Command (m for help):
```

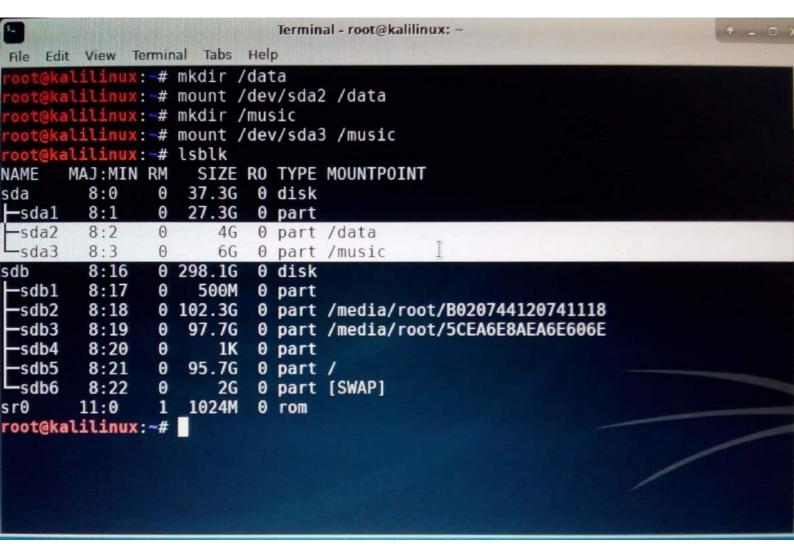


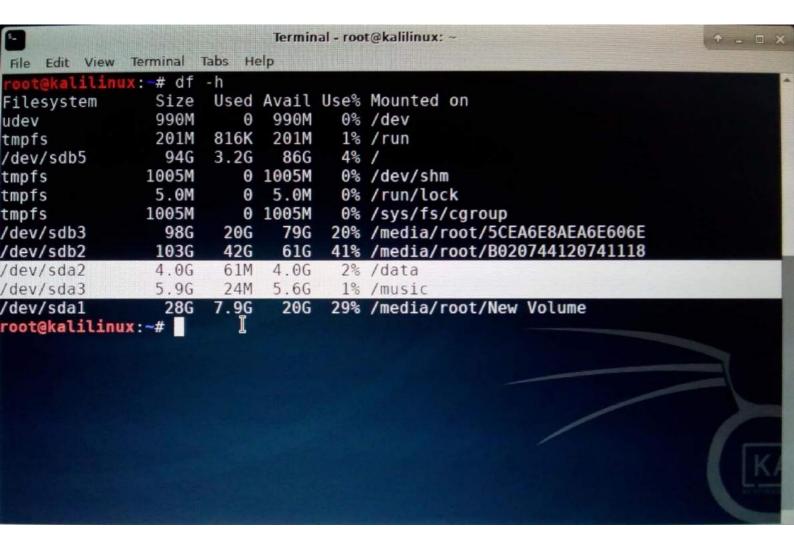
3. Format 4gb with xfs and 6gb with ext4 file system

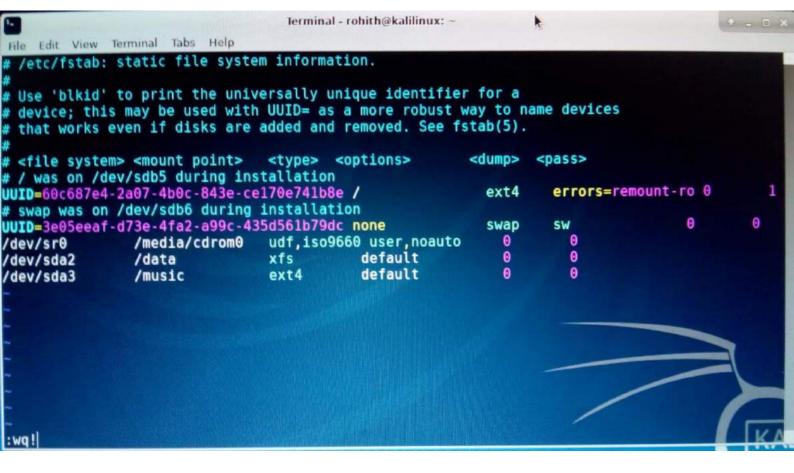
Terminal - root@kalilinux: ~

```
File Edit View Terminal Tabs Help
Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.
 oot@kalilinux:~# mkfs.xfs /dev/sda2
meta-data=/dev/sda2
                                     isize=512
                                                    agcount=4, agsize=262144 blks
                                     sectsz=512
                                                    attr=2, projid32bit=1
                                     crc=1
                                                    finobt=1, sparse=1, rmapbt=0
                                     reflink=1
data
                                     bsize=4096
                                                   blocks=1048576, imaxpct=25
                                     sunit=0
                                                    swidth=0 blks
naming
          =version 2
                                                   ascii-ci=0, ftype=1
                                     bsize=4096
log
         =internal log
                                                   blocks=2560, version=2
                                     bsize=4096
                                     sectsz=512
                                                   sunit=0 blks, lazy-count=1
realtime =none
                                     extsz=4096
                                                   blocks=0, rtextents=0
root@kalilinux:~# mkfs.ext4 /dev/sda3
mke2fs 1.44.4 (18-Aug-2018)
Creating filesystem with 1572864 4k blocks and 393216 inodes
Filesystem UUID: bd774d0e-cd03-496c-a6fe-f82457705dcb
Superblock backups stored on blocks:
         32768, 98304, 163840, 229376, 294912, 819200, 884736
Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done
root@kalilinux:~#
```









5. Create one file of 1GB in each of the mount point created above.

```
Terminal - root@kalilinux: ~
              Terminal Tabs Help
dd: unrecognized operand '/dev/sda2'
    'dd --help' for more information.
              : # dd /data
dd: unrecognized operand '/data'
    'dd --help' for more information.
               :-# dd if=/dev/sda2 of=/data/test.txt bs=1GB count=1
   records in
   records out
1000000000 bytes (1.0 GB, 954 MiB) copied, 47.0459 s, 21.3 MB/s
        ilinux: # lsblk
       MAJ:MIN RM
                     SIZE RO TYPE MOUNTPOINT
         8:0
                    37.3G
                            0 disk
         8:1
                    27.3G
                            0 part /media/root/New Volume
                       6G
         8:3
                            0 part /music
sdb
         8:16
                   298.1G
                            0 disk
         8:17
                 0
                     500M
  sdb1
                            0 part
         8:18
                 0 102.3G
  sdb2
                            0 part
  sdb3
         8:19
                 0
                    97.7G
                            0 part
         8:20
                 0
                        1K
                            0 part
         8:21
                 0
                    95.7G
  sdb5
                            0 part /
  sdb6
                        2G
                            0 part [SWAP]
         8:22
        11:0
                    1024M
root@kalilinux:~#
```

```
Terminal - root@kalilinux: -
               Terminal Tabs
                            Help
File
     Edit
         View
                    298.1G
          8:16
                  0
                             0 disk
sdb
          8:17
                  0
                       500M
 -sdb1
                             0 part
                    102.3G
                             0 part
          8:18
                  0
 -sdb2
          8:19
                  Θ
                     97.7G
  sdb3
                             0 part
                         1K
  sdb4
          8:20
                  0
                             0 part
                     95.7G
                  0
                             0 part /
  sdb5
          8:21
 -sdb6
          8:22
                  Θ
                         2G
                               part [SWAP]
sr0
         11:0
                  1
                     1024M
                               rom
roo
         ilinux: -#
                    df
                       -h
Filesystem
                  Size
                         Used Avail Use% Mounted on
udev
                  990M
                            0
                                990M
                                        θ% /dev
tmpfs
                  201M
                         804K
                                201M
                                        1% /run
/dev/sdb5
                   94G
                         3.2G
                                 86G
                                        48 /
tmpfs
tmpfs
                 1005M
                            0
                              1005M
                                        0% /dev/shm
                  5.0M
                            0
                                5.0M
                                        0% /run/lock
tmpfs
                               1005M
                 1005M
                            0
                                        0% /sys/fs/cgroup
/dev/sda2
                  4.0G
                        1015M
                                3.0G
                                       25% /data
/dev/sda3
                  5.9G
                          24M
                                5.6G
                                        1% /music
/dev/sda1
                   28G
                         7.9G
                                       29% /media/root/New Volume
                                 20G
root@kalilinux:~# dd if=/dev/sda3 of=/music/test1.txt bs=1GB count=1
1+0 records in
1+0 records out
1000000000 bytes (<u>1</u>.0 GB, 954 MiB) copied, 48.9996 s, 20.4 MB/s
root@kalilinux:~#
```

6. Verify the disk Consumption and disk space free in the mounted partitions.

