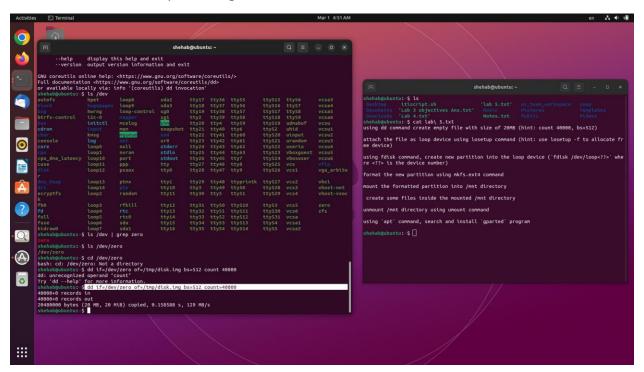
Shehab Hossam

using dd command create empty file with size of 20MB (hint: count 40000, bs=512)

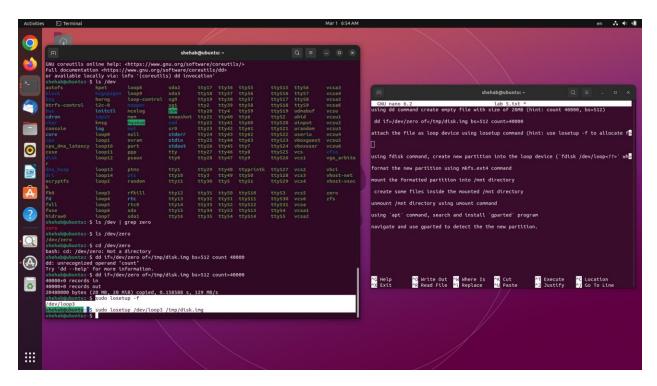
dd if=/dev/zero of=/tmp/disk.img bs=512 count=40000



attach the file as loop device using losetup command (hint: use losetup -f to allocate free device)

sudo losetup -f // => /dev/loop3

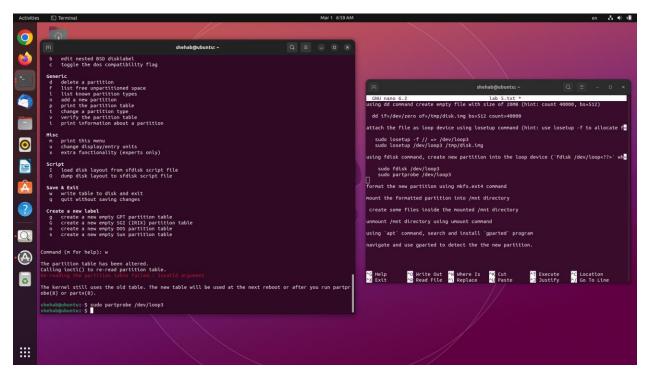
sudo losetup /dev/loop3 /tmp/disk.img

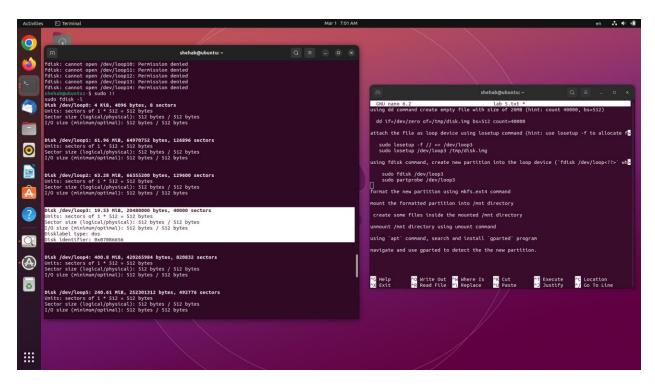


using fdisk command, create new partition into the loop device ('fdisk /dev/loop<??>` where <??> is the device number)

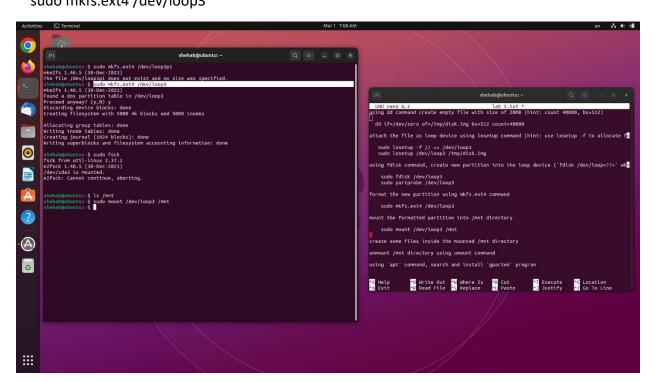
sudo fdisk /dev/loop3

sudo partprobe /dev/loop3

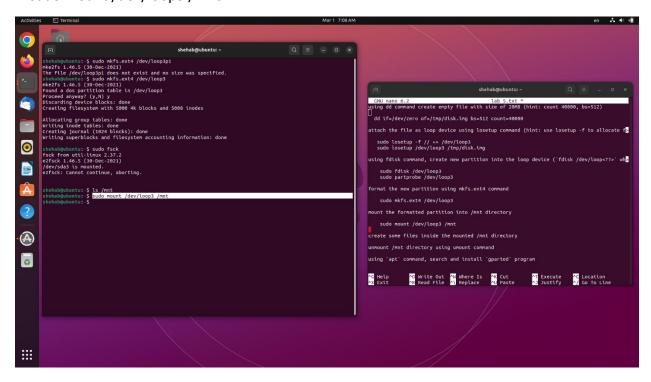




format the new partition using mkfs.ext4 command sudo mkfs.ext4 /dev/loop3



mount the formatted partition into /mnt directory sudo mount /dev/loop3 /mnt

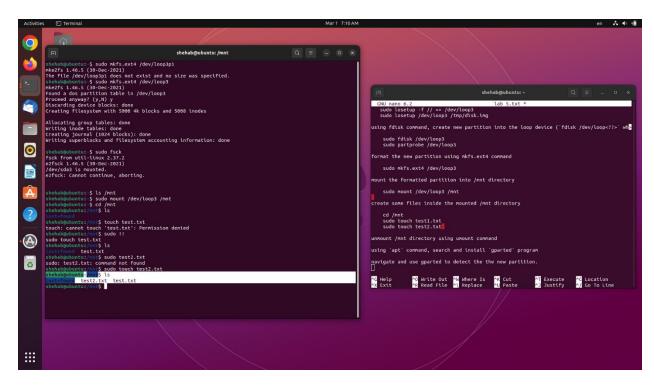


create some files inside the mounted /mnt directory

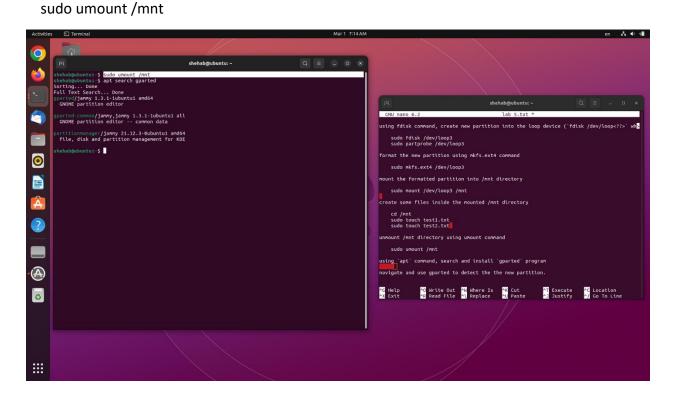
cd /mnt

sudo touch test1.txt

sudo touch test2.txt

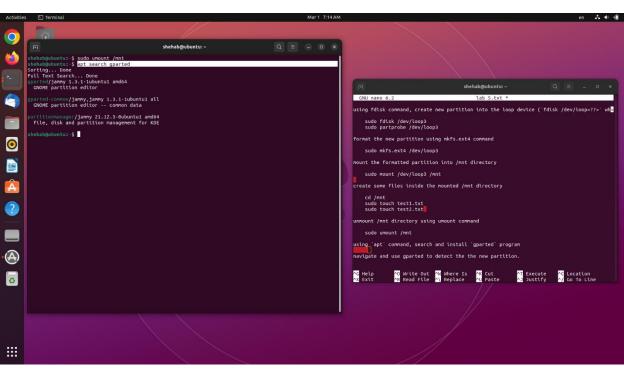


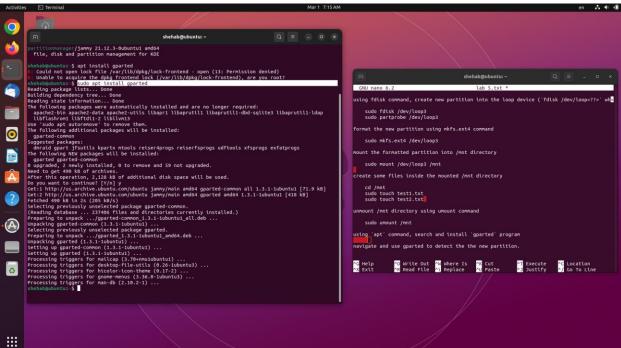
unmount /mnt directory using umount command



using 'apt' command, search and install 'gparted' program

sudo apt install gparted





navigate and use gparted to detect the the new partition.

sudo gparted

