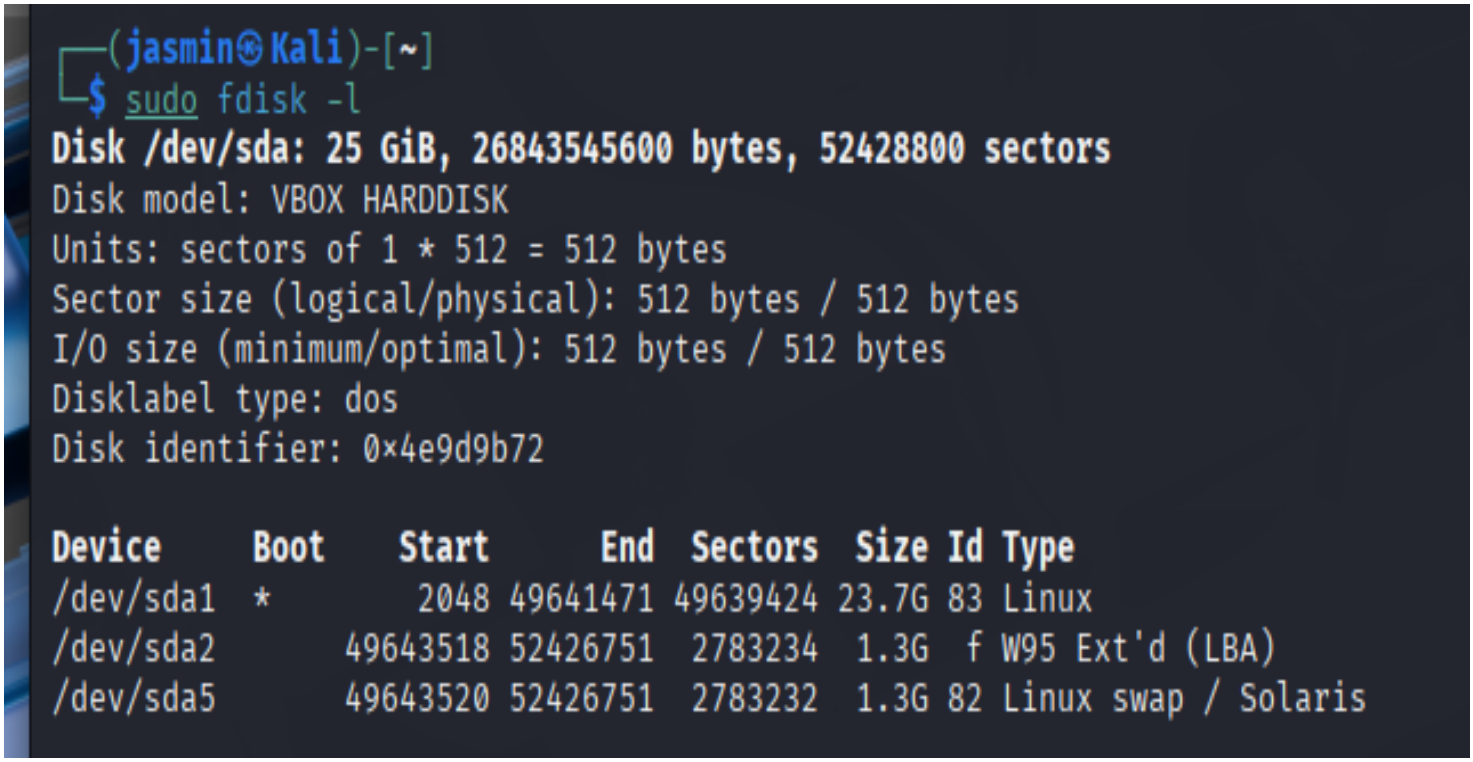
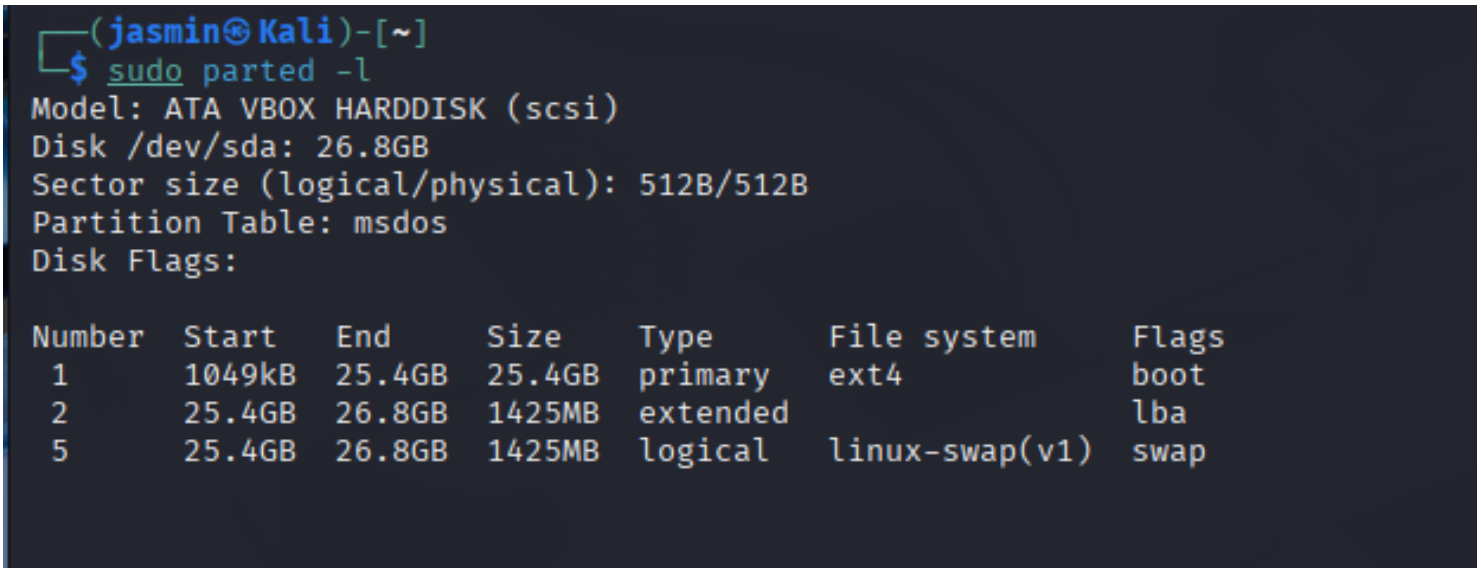
Part I– Check your file system (30 points)

Step 1: I executed the **sudo ls /dev/sd*** command which displays all current hard disk devices.

Step 2: I executed the **sudo fdisk -l** command which is used to list the current hard disk partitions.

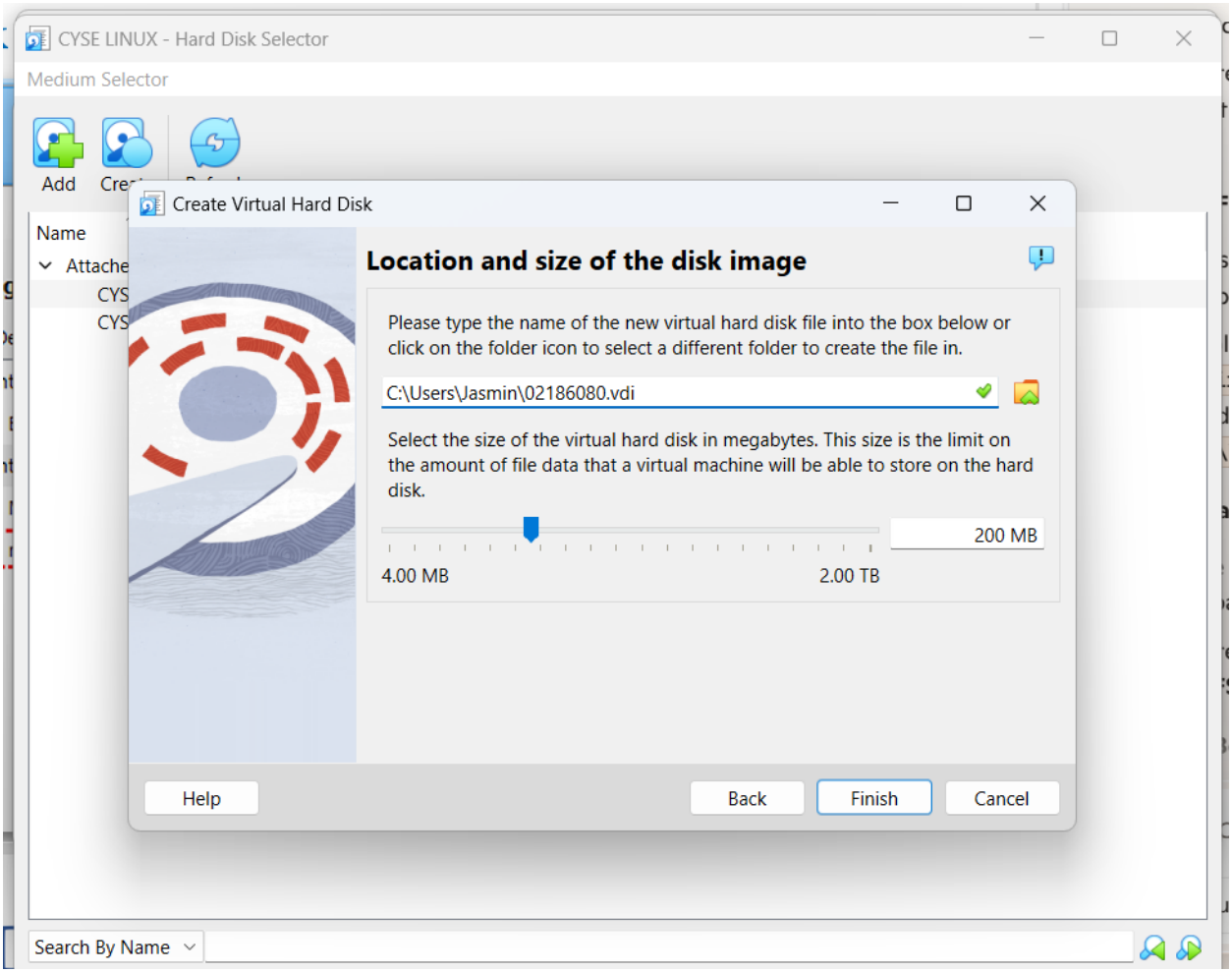


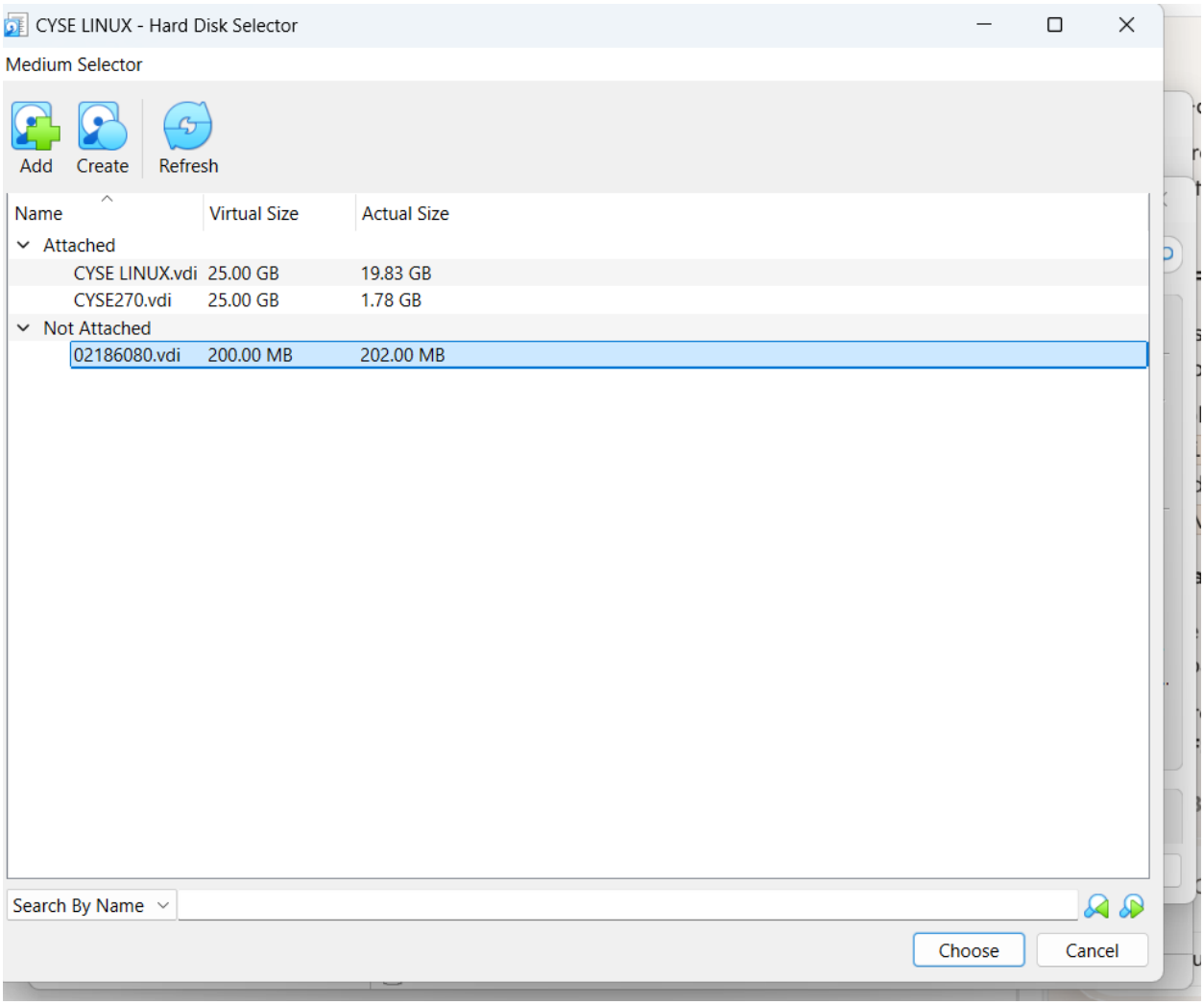
Step 3: I executed the **sudo parted -l** command which is used to list the current hard disk partition table.



Part II– Create a new virtual disk (30 points)

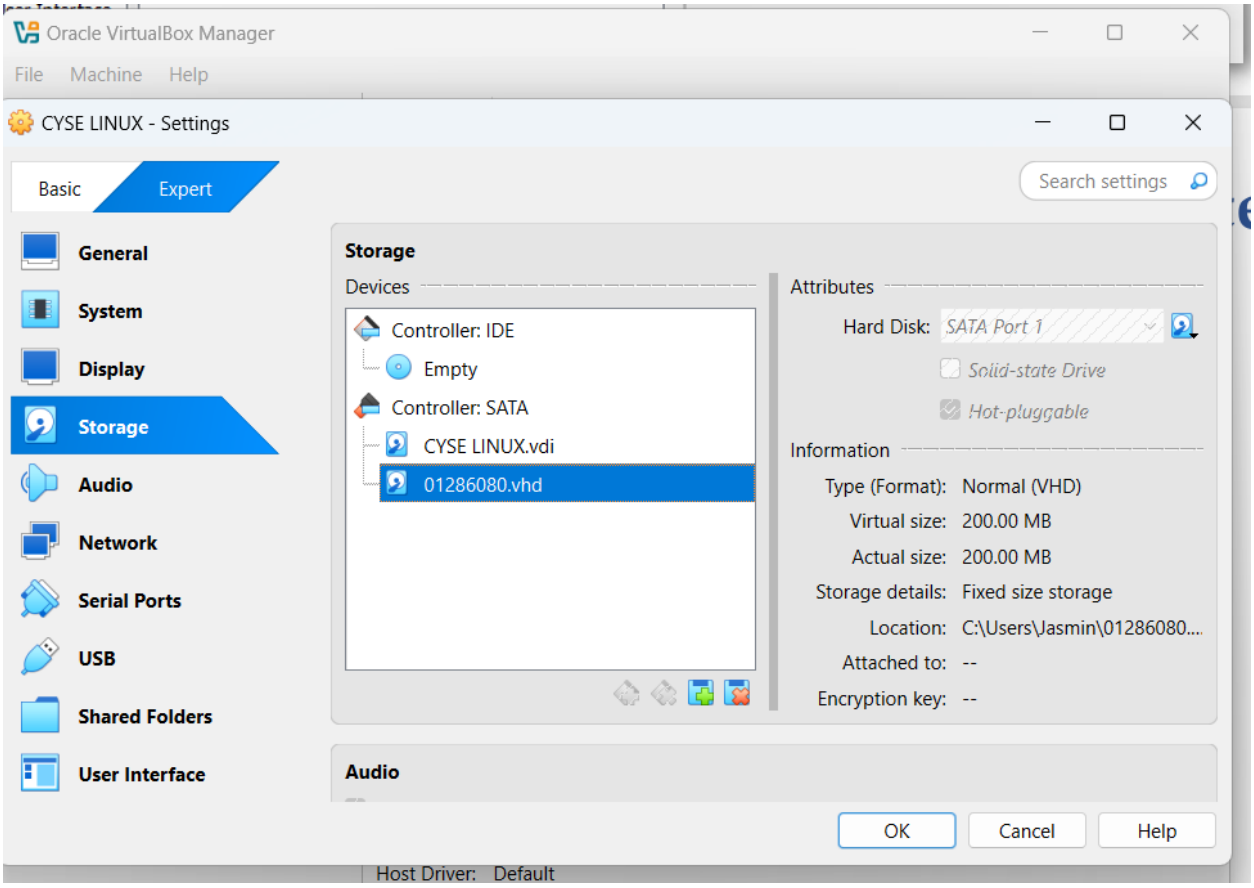
Step 1:



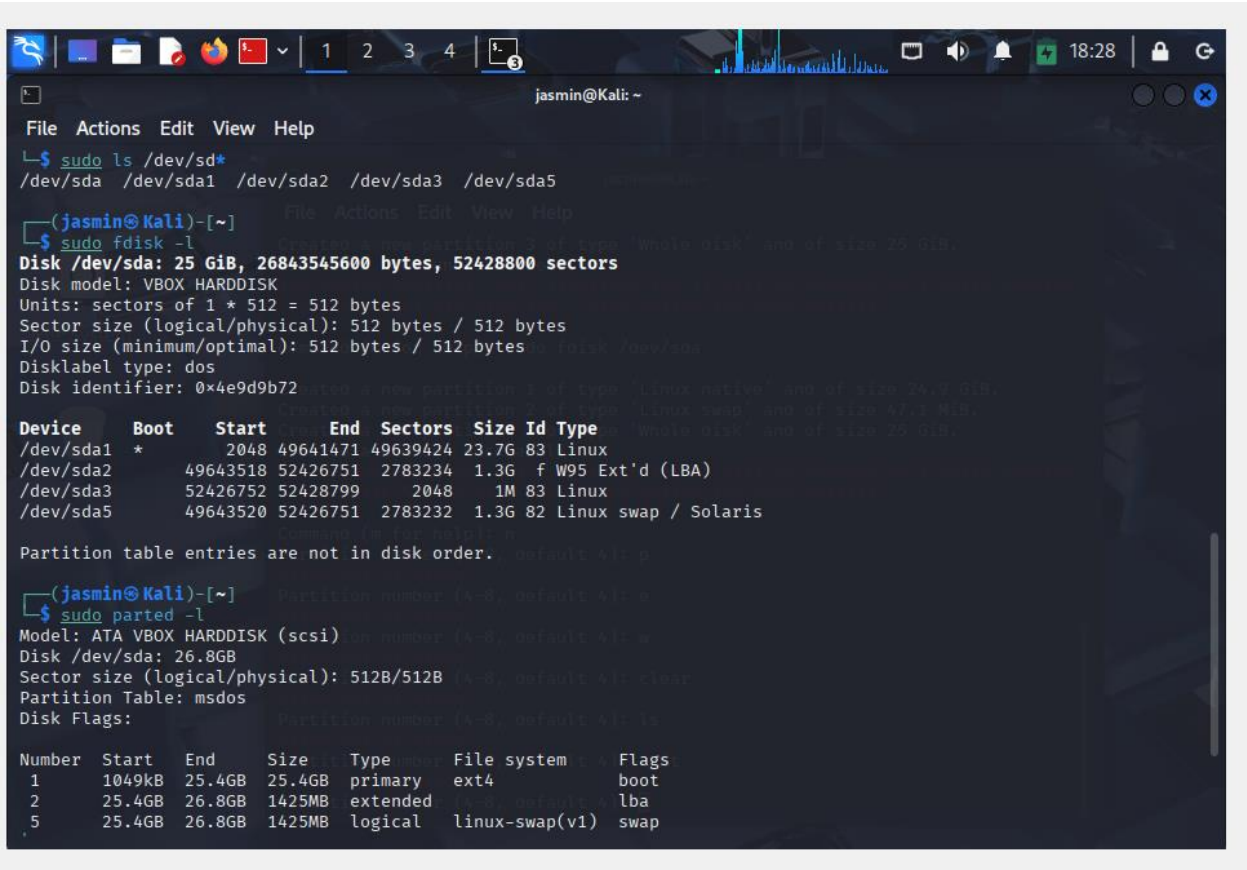

CYSE LINUX - Hard Disk Selector
Medium Selector
Add
Create
Refresh
Name
Virtual Size
Actual Size
Attached
CYSE LINUX.vdi 25.00 GB 19.83 GB
CYSE270.vdi 25.00 GB 1.78 GB
Not Attached
02186080.vdi 200.00 MB 202.00 MB
Search By Name
Choose
Cancel

Step 2. I loaded the hard disk by going into

a. **settings**
b. **storage**
c. **clicking on 02186080.vhd and then clicking on "ok"**



Step 3. The changes that I noted after executed the three commands include



Part III– Creating Partitions and Filesystems (60 points)

Step 1. I executed the **sudo fdisk /dev/sda** command to create a new partition.

Step 2. to create an ext4 filesystem on the new partition I used the sudo mkfs.ext4 /dev/sdb1 command.