After you partitioned your hard disk by using fdisk follow the steps below to

1- Create a Physical volume

#pvcreate /dev/sdb1

2- Create a Volume Group named vg\_db

#vgcreate vg\_db /dev/sdb1

3- Create a Logical Volume named lv\_db of size 6GB

#lvcreate -L +6G -n lv\_db

4- Create XFS filesystem on the LV

#mkfs.xfs /dev/vg\_db/lv\_db

5- Create a mount poing named /u01

mkdir /u01

6- Mount the filesystem

#mount /dev/vg\_db/lv\_db /u01

7- Run the command df -Th to verify your filesystem is mounted and is the right size (6GB)

8- Extend the filesystem by another 1GB

#lvextend -L +1G /dev/vg\_db/lv\_db

9- Grow the filesystem

#xfs\_growfs /u01

10- Run the df -Th again to verify that your filesystem size increased

11- Now your part

format the 2nd disk and add it the VG previously created (vg\_db) and grow the filesystem.

Show the command you used to extend the volume group and the filesystem