Lab 2

- 1- Check the present value of /proc/sys/net/ipv4/icmp echo ignore all
- 2- It should be 0, change it to 1 which will prevent other hosts from successfully pinging your host while not affecting your ability to ping them.
- 3- Try to ping your colleague, let your colleague try to ping your host.
- 4- Reboot and try the last step. What happened? Why?
- 5- Edit /etc/sysctl.conf and put the following line at the bottom:
 - net.ipv4.icmp echo ignore all=1
- 6- Execute sysctl -p command.
- 7- Check the value of /proc/sys/net/ipv4/icmp echo ignore all.
- 8- Use fdisk -I to locate information about the partition sizes.
- 9- Use fdisk to add a new logical partition that is 1GB in size.
- 10- Did the kernel feel the changes? Display the content of /proc/partitions file? What did you notice? How to overcome that?
- 11- Make a new ext2 file system on the new logical partition you just created.

Bonus: Try creating the ext2 filesystem with 2k blocks and one inode per every 4k (two blocks) of filesystem.

- 12- Create a directory, name it /data.
- 13- Add a label to the new filesystem, name it data.
- 14- Add a new entry to /etc/fstab for the new filesystem using the label you just create.
- 15- Mount the new filesystem.
- 16- Display your swap size.
- 17- Create a swap file of size 512MB.
- 18- Add the swap file to the virtual memory of the system.
- 19- Display the swap size