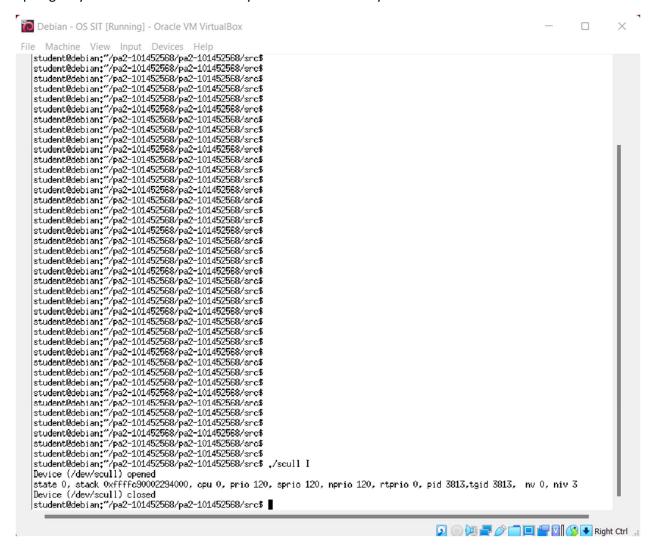
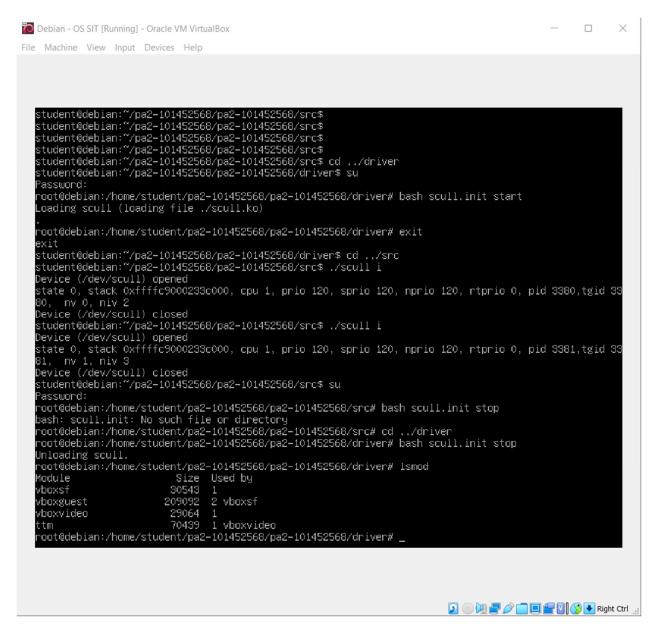
I pledge my honor that I have abided by the Stevens Honor System. - Nidhi Parekh



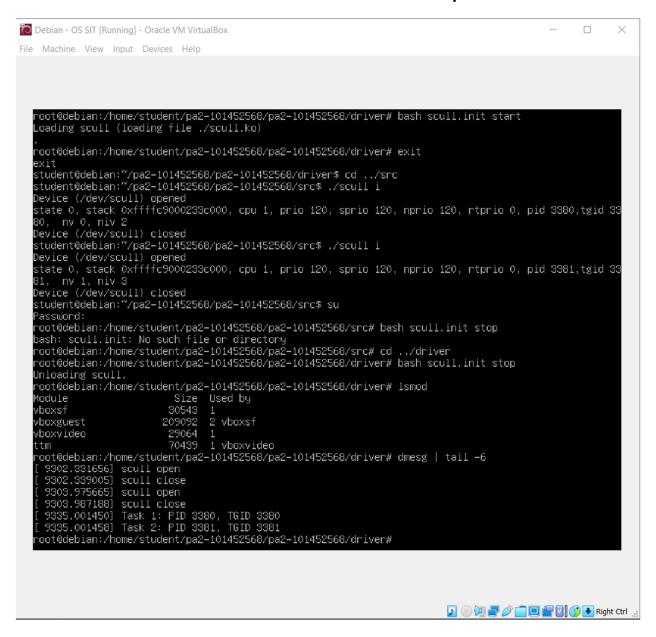
Part E (./scull i) SCREENSHOT

Having permissions problems :/ (please be kind (:)

f.1 SCREENSHOT - load, ./scull I , unload



FINAL f.2 SCREENSHOT – DMESG | TAIL -6



G.1 SCREENSHOT (./scull p - user)

```
Debian - OS SIT [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
   root@debian:/home/student/pa2-101452568/pa2-101452568/driver#
bash scull.init start
Loading scull (loading file ./scull.ko)
    Loading scull (loading file ./scull.ko)
    root@debian:/home/student/pa2-101452568/pa2-101452568/driver# exit
    student@debian:~/pa2-101452568/pa2-101452568/src$ ./scull p
    Device (/dev/scull) opened
    state 0, stack 0xffffc900023dc000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3460, tgid 3
    460, nv 0, niv 0
    state 0, stack 0xffffc900023ec000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3461, tgid 3
    state 0, stack 0xffffc900023fc000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3463, tgid 3
    463, nv 0, niv 0
    state 0, stack 0xffffc900023ec000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3461, tgid 3
    461, nv 0, niv 0
    state 0, stack 0xffffc900023dc000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid <u>3</u>460, tgid 3
    state 0, stack 0xffffc900023f4000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3462, tgid 3
    462, nv 0, niv 0
    state 0, stack 0xffffc900023f4000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3462, tgid 3
    462, nv 0, niv 0
    state 0, stack 0xffffc900023fc000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3463, tgid 3
    463, nv 0, niv 0
    Device (/dev/scull) closed
    student@debian:~/pa2-101452568/pa2-101452568/src$
                                                                                                                           Q ( ) ( ) Right Ctrl ...
```

G 1) ./scull p – dmesg SCREENSHOT

```
Debian - OS SIT [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
  root@debian:/home/student/pa2-101452568/pa2-101452568/driver# exit
  exit
  student@debian:~/pa2-101452568/pa2-101452568/src$ ./scull p
  Device (/dev/scull) opened
state 0, stack 0xffffc900023dc000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3460, tgid 3
  460, nv 0, niv 0
  state 0, stack 0xffffc900023ec000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3461, tgid 3
   state 0, stack 0xffffc900023fc000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3463, tgid 3
  463, nv 0, niv 0
   state 0, stack 0xffffc900023ec000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3461, tgid 3
  461, nv 0, niv 0
  state 0, stack 0xffffc900023dc000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3460, tgid 3
  state 0, stack 0xffffc900023f4000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3462, tgid 3
  462, nv 0, niv 0
   state 0, stack 0xffffc900023f4000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3462, tgid 3
  462, nv 0, niv 0
  state 0, stack 0xffffc900023fc000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3463, tgid 3
  463, nv 0, niv 0
  Device (/dev/scull) closed
  student@debian:~/pa2-101452568/pa2-101452568/src$ su
   assword:
  root@debian:/home/student/pa2-101452568/pa2-101452568/src# bash scull.init stop
  bash: scull.init: No such file or directory
  root@debian:/home/student/pa2=101452568/pa2=101452568/src# cd ../driver
  root@debian:/home/student/pa2=101452568/pa2=101452568/driver# bash scull.init stop
  Unloading scull.
  root@debian:/home/student/pa2–101452568/pa2–101452568/driver# dmesg | tail –6
    9872.816363] scull open
   [ 9872.927996] scull close
[ 9872.927996] scull close
[ 9921.361055] Task 1: PID 3460, TGID 3460
[ 9921.361062] Task 2: PID 3463, TGID 3463
[ 9921.361065] Task 3: PID 3461, TGID 3461
[ 9921.361069] Task 4: PID 3462, TGID 3462
hoot@debian:/home/student/pa2-101452568/pa2-101452568/driver#
                                                                                    Q ( ) Right Ctrl ...
```

G 2.) ./scull t – user screenshot

```
Debian - OS SIT [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
   root@debian:/home/student/pa2-101452568/pa2-101452568/driver#
   rootegeblan:/nome/student/pa2-101452568/pa2-101452568/drlver#
rootegeblan:/home/student/pa2-101452568/pa2-101452568/drlver#
rootegeblan:/home/student/pa2-101452568/pa2-101452568/drlver#
rootegeblan:/home/student/pa2-101452568/pa2-101452568/drlver#
rootegeblan:/home/student/pa2-101452568/pa2-101452568/drlver#
rootegeblan:/home/student/pa2-101452568/pa2-101452568/drlver#
rootegeblan:/home/student/pa2-101452568/pa2-101452568/drlver#
   rootddebian:/home/student/pa2-101452568/pa2-101452568/driver#
root@debian:/home/student/pa2-101452568/pa2-101452568/driver#
root@debian:/home/student/pa2-101452568/pa2-101452568/driver#
   root@debian:/home/student/pa2=101432368/pa2=101432368/ariver#
root@debian:/home/student/pa2=101452568/pa2=101452568/driver#
root@debian:/home/student/pa2=101452568/pa2=101452568/driver#
root@debian:/home/student/pa2=101452568/pa2=101452568/driver# bash scull.init start
   Loading scull (loading file ./scull.ko)
   root@debian:/home/student/pa2-101452568/pa2-101452568/driver# exit
   exit
   student@debian:~/pa2-101452568/pa2-101452568/src$ ./scull t
   Device (/dev/scull) opened
   state 0, stack 0xffffc9000240c000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3487, tgid 3
   486, nv 0, niv 0
   state 0, stack 0xffffc9000240c000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3487, tgid 3
   486, nv O, niv O
    tate 0, stack 0xffffc90002428000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3488, tgid 3
   486, nv 0, niv 0
   state 0, stack 0xffffc90002438000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3490, tgid 3
   486, nv O, niv O
   state 0, stack 0xffffc90002430000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3489, tgid 3
   486, nv 0, niv 0
    tate 0, stack 0xffffc90002430000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3489, tgid 3
   486, nv 2, niv 1
   state O, stack Oxffffc90002438000, cpu 1, prio 120, sprio 120, nprio 120, rtprio O, pid 3490, tgid 3
   486, nv 1, niv 3
   state O, stack Oxffffc90002428000, cpu O, prio 12O, sprio 12O, nprio 12O, rtprio O, pid 3488, tgid 3
   486, nv 1, niv 2
   Device (/dev/scull) closed
   student@debian:~/pa2-101452568/pa2-101452568/src$ _
                                                                                                         Q ( ) Right Ctrl ...
```

G 2) ./scull t – dmesg

```
Debian - OS SIT [Running] - Oracle VM VirtualBox
                                                                                                                File Machine View Input Devices Help
   root@debian:/home/student/pa2-101452568/pa2-101452568/driver# exit
   student@debian:~/pa2-101452568/pa2-101452568/src$ ./scull t
   Device (/dev/scull) opened
state 0, stack 0xffffc9000240c000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3487, tgid 3
   486, nv 0, niv 0
   state 0, stack 0xffffc9000240c000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3487, tgid 3
   state 0, stack 0xffffc90002428000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3488, tgid 3
   486, nv 0, niv 0
   state 0, stack 0xffffc90002438000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3490, tgid 3
   486, nv 0, niv 0
   state 0, stack 0xffffc90002430000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3489, tgid 3
   486, nv 0, niv 0
   state 0, stack 0xffffc90002430000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3489, tgid 3
   486, nv 2, niv 1
   state 0, stack 0xffffc90002438000, cpu 1, prio 120, sprio 120, nprio 120, rtprio 0, pid 3490, tgid 3
   486, nv 1, niv 3
   state 0, stack 0xffffc90002428000, cpu 0, prio 120, sprio 120, nprio 120, rtprio 0, pid 3488, tgid 3
   486, nv 1, niv 2
   Device (/dev/scull) closed
   student@debian:~/pa2-101452568/pa2-101452568/src$ su
   assword:
   root@debian:/home/student/pa2–101452568/pa2–101452568/src# bash scull.init stop
  bash: scull.init: No such file or directory
root@debian:/home/student/pa2–101452568/pa2–101452568/src# cd ../driver
root@debian:/home/student/pa2–101452568/pa2–101452568/driver# bash scull.init stop
   Unloading scull.
   oot@debian:/home/student/pa2-101452568/pa2-101452568/driver# dmesg | tail -6
     9978.950205] scull close
   [10013.973447] Task 1: PID 3487, TGID 3486
[10013.973454] Task 2: PID 3489, TGID 3486
[10013.973457] Task 3: PID 3488, TGID 3486
   [10013.973461] Task 4: PID 3490, TGID 3486
[10013.973465] Task 5: PID 3490, TGID 3486
    oot@debian:/home/student/pa2-101452568/pa2-101452568/driver# _
                                                                                     Q ( ) Right Ctrl
```

- dmesg isn't fully working :/ (please be gentle (:)