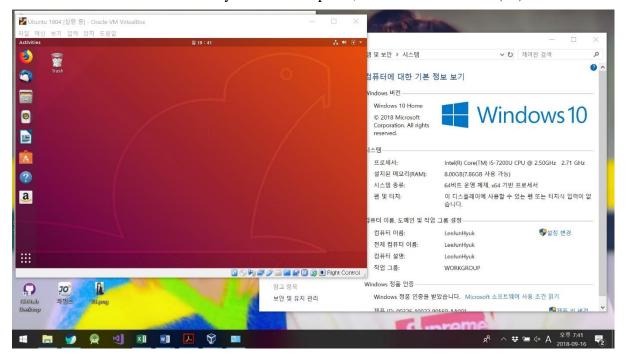
Operating Systems Fall 2018 Hw No. 1

(Due on Sept. 20)

ID / NAME : 2014310407 / 이준혁(Lee JunHyuk)

1. Install Linux Virtual Machine in your PC. As a proof, show its screen shot. (50)

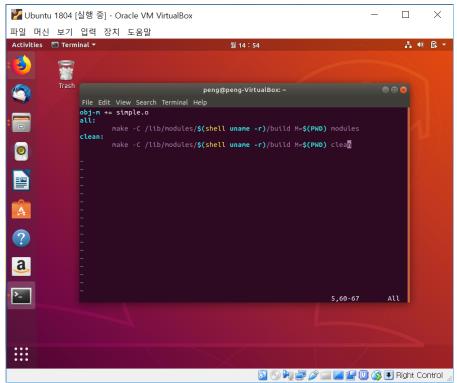


2. Read the programming project on Linux kernel module in the textbook p. 94 – p. 96, Part I. Do the Part I Assignment in p. 96, and report the screen shot of the result of each step. (50)

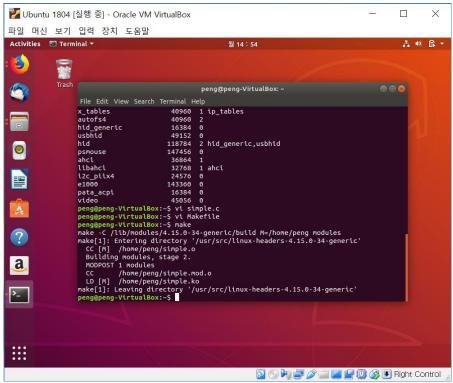
1) List all kernel modules using lsmod

```
🌌 Ubuntu 1804 [실행 중] - Oracle VM VirtualBox
파일 머신 보기 입력 장치 도움말
Activities 🖪 Terminal
                                                                   월 14 : 52
                                                                                                                        A (0) B →
                                                          peng@peng-VirtualBox: ~
                     File Edit View Search Terminal Help
#include <linux/init.h>
#include <linux/kernel.h>
#include <linux/module.h>
                     int simple_init(void)
                              printk(KERN_INFO "Loading Module\n");
                     void simple_exit(void)
                              printk(KERN_INFO "Removing Module\n");
                     module_init(simple_init);
module_exit(simple_exit);
                     MODULE_LICENSE("GPL");
MODULE_DESCRIPTION("Simple Module");
MODULE_AUTHOR("SGG");
:::
                                                                           Sight Control
```

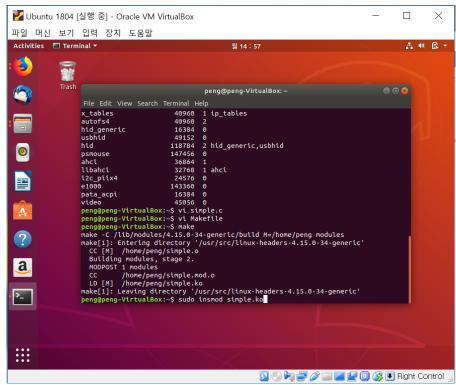
2) Writes a simple.c



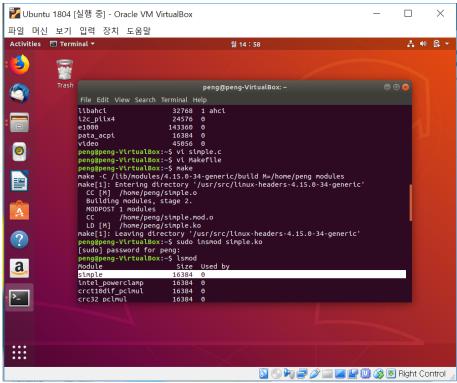
3) Writes a Makefile



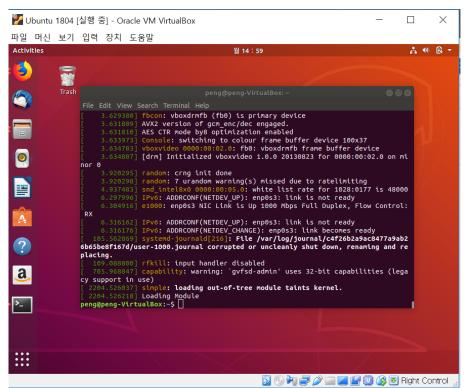
4) Compile using Makefile



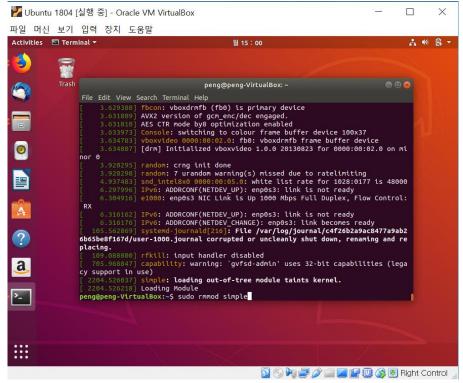
5) Load the kernel module



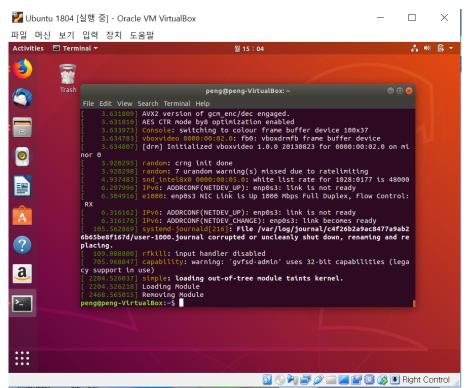
6) Using Ismod, check the simple module exist



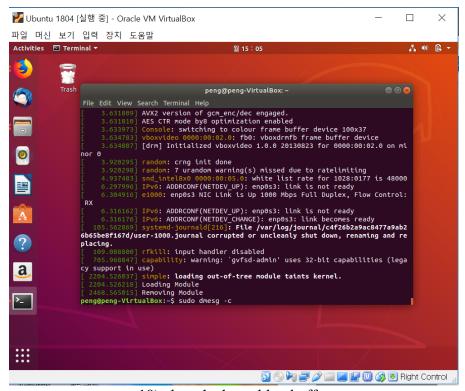
7) Using dmseg, check the kernel log buffer



8) Remove the kernel module



9) Using dmseg, check the kernel log buffer



10) clear the kernel log buffer