

Academic Year	2025		
Semester	☐ Fall	⊠ Winter	☐ Summer
Course Code - Name	CSCI 3310 – System Programming		
Instructor	Dr. Ghadeer Abdelkader		
Assessment	Lab 1		
Deadline	Submit during th	ne lab	

Submission:

```
9.
 clayton@debian:~/Desktop/SystemsProgramming/Labs/Lab1$ sudo insmod lab1.ko
 clayton@debian:~/Desktop/SystemsProgramming/Labs/Lab1$ sudo lsmod | grep lab1
 clayton@debian:~/Desktop/SystemsProgramming/Labs/Lab1$ sudo rmmod lab1

  clayton@debian:~/Desktop/SystemsProgramming/Labs/Lab1$ sudo lsmod | grep lab1

 clayton@debian:~/Desktop/SystemsProgramming/Labs/Lab1$ sudo dmesq | tail
   [ 5663.281475] Cleaning up the Kernel module
   [ 5682.675184] Welcome to Systems Programming
10.
#include<linux/init.h>
#includelinux/module.h>
#includelinux/kernel.h>
MODULE LICENSE("GPL");
MODULE AUTHOR("Clayton:100824037 Zachariah::100783192 Alireza::100812651");
MODULE DESCRIPTION("100824037 100783192 100812651: This is Group2's first Kernel
module");
static int init welcome function(void)
{
printk("Welcome to Systems Programming\n");
return 0;
}
static void exit cleaning up function(void)
printk("Cleaning up the Kernel module");
module init(welcome function);
module exit(cleaning up function);
```Makefile
obj-m += lab1.o
all:
make -C /lib/modules/$(shell uname -r)/build M=$(PWD) modules
clean:
make -C /lib/modules/$(shell uname -r)/build M=$(PWD) clean
```