

simple.c 為 project2的程式碼

makefile為 compile文件，以下為內容

```
obj-m += simple.o
```

```
all:
```

```
    make -C /lib/modules/$(shell uname -r)/build M=$(PWD)
```

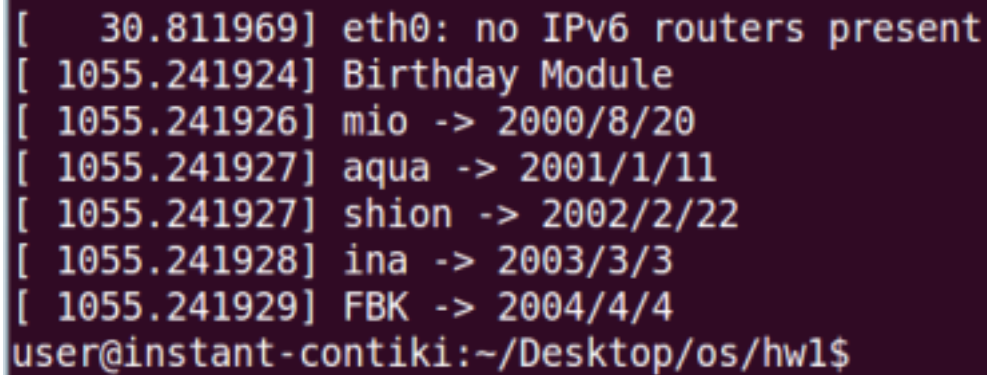
```
modules
```

```
clean:
```

```
    rm -f *.o *.ko *.mod.*
```

sudo insmod simple.ko 先insert module

然後再查看訊息 dmesg

A terminal window with a dark purple background and light blue text. It displays the output of the 'dmesg' command, showing system boot logs. The logs include messages about IPv6 routers, the Birthday Module, and various kernel modules (mio, aqua, shion, ina, FBK) being loaded with their respective timestamps. The prompt at the bottom indicates the user is 'user@instant-contiki' in the directory '~/Desktop/os/hw1\$'.

```
[ 30.811969] eth0: no IPv6 routers present  
[ 1055.241924] Birthday Module  
[ 1055.241926] mio -> 2000/8/20  
[ 1055.241927] aqua -> 2001/1/11  
[ 1055.241927] shion -> 2002/2/22  
[ 1055.241928] ina -> 2003/3/3  
[ 1055.241929] FBK -> 2004/4/4  
user@instant-contiki:~/Desktop/os/hw1$
```

sudo rmmod simple 把module移除

然後一樣再重新查看訊息 sudo dmesg -c

```
[ 1142.962683] Remove Module
[ 1142.962685] removed mio -> 2000/8/20
[ 1142.962686] removed aqua -> 2001/1/11
[ 1142.962687] removed shion -> 2002/2/22
[ 1142.962688] removed ina -> 2003/3/3
[ 1142.962688] removed FBK -> 2004/4/4
user@instant-contiki:~/Desktop/os/hw1$
```

Struct 的架構 以及包含一個list 來存放生日的人

```
1
2 static LIST_HEAD(birthday_list);
3
4 struct birthday
5 {
6     int day;
7     int month;
8     int year;
9     char *name;
10    struct list_head list;
11 };
12
```