

Source Code:

hello.c Makefile

hello.c

```
#include <linux/init.h>
#include <linux/module.h>
#include <linux/kernel.h>

static int __init hello_init(void)
{
    pr_alert("Hello, Hou.\n");
    return 0;
}

static void __exit hello_exit(void)
{
    pr_alert("Bye, Hou\n");
}

module_init(hello_init);
module_exit(hello_exit);
MODULE_LICENSE("GPL");
MODULE_DESCRIPTION("Greeting module");
MODULE_AUTHOR("HOU Chengze");
```

Makefile

```
obj-m += hello.o

PWD := $(CURDIR)

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

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

The result of execution displayed

```
lighthouse@republicofhoul:~/AdvancedOperatingSystem/10-17-hw$ sudo dmesg -t | tail -1
Hello, Hou.
```