```c
/*
 * hello-1.c - The simplest kernel module.
 */

#include <linux/module.h> /* Needed by all modules */

#include <linux/kernel.h> /* Needed for KERN_INFO */

int init_module(void)

{

printk(KERN_INFO "Hello world 1.\n");

/*

 A non 0 return means init_module failed; module can't be loaded. printk() messages get printed to your console rather than just logged to your logfile


*/

return 0;

}

void cleanup_module(void)

{

printk(KERN_INFO "Goodbye world 1.\n");

}
```

/*makefile*/

```makefile
obj-m += hello-1.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
```

/*build commands*/

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

insmod hello.ko
```

/*How to check results*/

You should now check **dmesg**. The last line should print **Hello World :).**

Now remove it using **rmmod hello**. **dmesg** should now print **Goodbye World!.**