## Device Drivers LAB EXAM Question 2(b) - Output

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The module is made using the make command

```
maria@ubuntu:~/DeviceDriversLab/LAB_EXAM/Q2_PART_B$ make
make -C /lib/modules/4.15.0-70-generic/build M=/home/maria/DeviceDriversLab/LAB_EXAM/Q2_PART_B modules
make[1]: Entering directory '/usr/src/linux-headers-4.15.0-70-generic'
    CC [M] /home/maria/DeviceDriversLab/LAB_EXAM/Q2_PART_B/q2.o
    Building modules, stage 2.
    MODPOST 1 modules
WARNING: modpost: missing MODULE_LICENSE() in /home/maria/DeviceDriversLab/LAB_EXAM/Q2_PART_B/q2.o
see include/linux/module.h for more information
    CC     /home/maria/DeviceDriversLab/LAB_EXAM/Q2_PART_B/q2.mod.o
    LD [M] /home/maria/DeviceDriversLab/LAB_EXAM/Q2_PART_B/q2.ko
make[1]: Leaving directory '/usr/src/linux-headers-4.15.0-70-generic'
```

The module is inserted using the insmod command

```
maria@ubuntu:~/DeviceDriversLab/LAB_EXAM/Q2_PART_B$ sudo insmod q2.ko [sudo] password for maria:
maria@ubuntu:~/DeviceDriversLab/LAB_EXAM/Q2_PART_B$
```

The log message is displayed

```
untu:~/DeviceDriversLab/LAB_EXAM/Q2_PART_B

maria@ubuntu:~/DeviceDriversLab/LAB_EXAM/Q2_PART_B$ dmesg | tail -1
[15858.307870] Maria Philna Aruja
```

Lsmod command is used to see the inserted module

```
maria@ubuntu:~/DeviceDriversLab/LAB_EXAM/Q2_PART_B$ lsmod
Module Size Used by
q2 16384 0
ccm 20480 3
```

The module is removed and the log is displayed

```
maria@ubuntu:~/DeviceDriversLab/LAB_EXAM/Q2_PART_B$ sudo rmmod q2.ko
maria@ubuntu:~/DeviceDriversLab/LAB_EXAM/Q2_PART_B$ dmesg | tail -1
[15953.282250] Cleaning up module.
maria@ubuntu:~/DeviceDriversLab/LAB_EXAM/Q2_PART_B$
```