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## **Makefile**

```
obj-m = Q5.o
KVERSION = $(shell uname -r)
all:
    make -C /lib/modules/$(KVERSION)/build M=$(PWD) modules
clean:
    make -C /lib/modules/$(KVERSION)/build M=$(PWD) clean
```

## **Compile**

Make

## **Inserting module**

sudo insmod Q5.ko

# Check Log

sudo dmesg|tail

```
r7-mini-workstation@r7miniworkstation:~/Desktop/Sem8/DD/Lab2/Q5$ l
Makefile      Module.symvers  Q5.ko  Q5.mod.c  Q5.o
modules.order Q5.c           Q5.mod Q5.mod.o
r7-mini-workstation@r7miniworkstation:~/Desktop/Sem8/DD/Lab2/Q5$
r7-mini-workstation@r7miniworkstation:~/Desktop/Sem8/DD/Lab2/Q5$ make
make -C /lib/modules/5.8.18-050818-generic/build M=/home/r7-mini-workstation/Desktop/Sem8/DD/Lab2/Q5 modules
make[1]: Entering directory '/usr/src/linux-headers-5.8.18-050818-generic'
  CC [M] /home/r7-mini-workstation/Desktop/Sem8/DD/Lab2/Q5/Q5.o
  MODPOST /home/r7-mini-workstation/Desktop/Sem8/DD/Lab2/Q5/Module.symvers
  CC [M] /home/r7-mini-workstation/Desktop/Sem8/DD/Lab2/Q5/Q5.mod.o
  LD [M] /home/r7-mini-workstation/Desktop/Sem8/DD/Lab2/Q5/Q5.ko
make[1]: Leaving directory '/usr/src/linux-headers-5.8.18-050818-generic'
r7-mini-workstation@r7miniworkstation:~/Desktop/Sem8/DD/Lab2/Q5$ sudo insmod Q5.ko
[sudo] password for r7-mini-workstation:
sudo: insmod: command not found
r7-mini-workstation@r7miniworkstation:~/Desktop/Sem8/DD/Lab2/Q5$ sudo insmod Q5.ko
r7-mini-workstation@r7miniworkstation:~/Desktop/Sem8/DD/Lab2/Q5$ sudo dmesg|tail
[27706.824679] IPv6: MLD: clamping QRV from 1 to 2!
[27726.681108] IPv6: MLD: clamping QRV from 1 to 2!
[27746.751085] IPv6: MLD: clamping QRV from 1 to 2!
[27766.830490] IPv6: MLD: clamping QRV from 1 to 2!
[27786.686193] IPv6: MLD: clamping QRV from 1 to 2!
[27806.756160] IPv6: MLD: clamping QRV from 1 to 2!
[27827.410510] IPv6: MLD: clamping QRV from 1 to 2!
[27846.896343] IPv6: MLD: clamping QRV from 1 to 2!
[27855.920173] testing Q6
[27866.761209] IPv6: MLD: clamping QRV from 1 to 2!
r7-mini-workstation@r7miniworkstation:~/Desktop/Sem8/DD/Lab2/Q5$ sudo rmmod Q5
r7-mini-workstation@r7miniworkstation:~/Desktop/Sem8/DD/Lab2/Q5$
```

# Delete module

sudo rmmod Q5