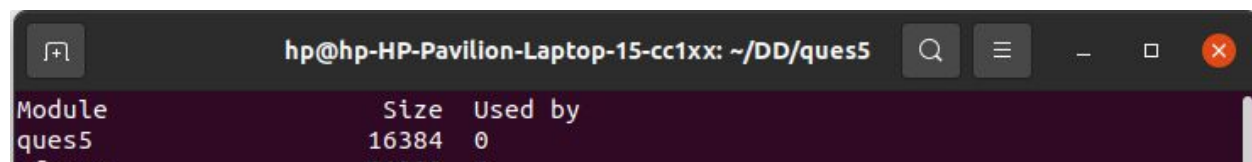Compiling using Makefile :

```
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~/DD/ques5$ make
make -C /lib/modules/5.8.0-45-generic/build M=/home/hp/DD/ques5 modules
make[1]: Entering directory '/usr/src/linux-headers-5.8.0-45-generic'
  CC [M]  /home/hp/DD/ques5/ques5.o
  MODPOST /home/hp/DD/ques5/Module.symvers
  CC [M]  /home/hp/DD/ques5/ques5.mod.o
  LD [M]  /home/hp/DD/ques5/ques5.ko
make[1]: Leaving directory '/usr/src/linux-headers-5.8.0-45-generic'
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~/DD/ques5$ sudo insmod ques5.ko
[sudo] password for hp:
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~/DD/ques5$ lsmod | less
```

Output of "lsmod | less" (to check the presence of module)

```
┌─┐                 hp@hp-HP-Pavilion-Laptop-15-cc1xx: ~/DD/ques5       Q  ≡   —  □  ✕
│+│
Module                    Size  Used by
ques5                     16384  0
```

(Module is inserted)

Checking the message printed in log file by the inserted ques5.ko module :

```
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~/ques5$ sudo dmesg | tail -10
[ 4218.010762] pcieport 0000:00:1d.3: AER: PCIe Bus Error: severity=Corrected, type=Physical Layer, (Receiver ID)
[ 4218.010770] pcieport 0000:00:1d.3: AER:   device [8086:9d1b] error status/mask=00000001/00002000
[ 4218.010775] pcieport 0000:00:1d.3: AER:    [ 0] RxErr                   (First)
[ 4383.532359] ques5: module verification failed: signature and/or required key missing - tainting kernel
[ 4383.532516] Loading My first module...
[ 4383.532517] DD Lab5
[ 4566.004054] pcieport 0000:00:1d.3: AER: Corrected error received: 0000:00:1d.3
[ 4566.004068] pcieport 0000:00:1d.3: AER: PCIe Bus Error: severity=Corrected, type=Physical Layer, (Receiver ID)
[ 4566.004077] pcieport 0000:00:1d.3: AER:   device [8086:9d1b] error status/mask=00000001/00002000
[ 4566.004083] pcieport 0000:00:1d.3: AER:    [ 0] RxErr                   (First)
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~/ques5$ ▯
```

Removing module and checking if its removed:

```
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~/DD/ques5$ sudo rmmod ques5.ko
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~/DD/ques5$ lsmod
Module                    Size  Used by
rfcomm                   81920  4
ccm                      20480  3
cmac                     16384  5
algif_hash               16384  2
algif_skcipher           16384  2
af_alg                   28672  10 algif_hash,algif_skcipher
bnep                     24576  2
zfs                    4022272  6
zunicode                331776  1 zfs
zlua                    151552  1 zfs
zavl                     16384  1 zfs
icp                     299008  1 zfs
zcommon                  94208  2 zfs,icp
znvpair                  94208  2 zfs,zcommon
spl                     131072  5 zfs,icp,znvpair,zcommon,zavl
snd_hda_codec_hdmi       61440  1
uvcvideo                 98304  0
videobuf2_vmalloc        20480  1 uvcvideo
videobuf2_memops         20480  1 videobuf2_vmalloc
snd_hda_codec_realtek   139264  1
videobuf2_v4l2           28672  1 uvcvideo
snd_hda_codec_generic    81920  1 snd_hda_codec_realtek
ledtrig_audio            16384  1 snd_hda_codec_generic
videobuf2_common         57344  2 videobuf2_v4l2,uvcvideo
```