Question 1)

make

make -C /usr/src/linux-headers-4.4.0-64-generic/ SUBDIRS=/home/etu1/Documents/TP4/1/helloworld modules

make[1]: Entering directory '/usr/src/linux-headers-4.4.0-64-generic'

Building modules, stage 2.

MODPOST 1 modules

CC /home/etu1/Documents/TP4/1/helloworld/helloworld.mod.o

LD [M] /home/etu1/Documents/TP4/1/helloworld/helloworld.ko

make[1]: Leaving directory '/usr/src/linux-headers-4.4.0-64-generic'

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insmod helloworld.ko

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lsmod

Module Size Used by

helloworld 16384 0

rfcomm 65536 12

bnep 20480 2

coretemp 16384 0

[….]

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rmmod helloworld.ko

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dmesg

[…]

[80478.472492] Hello world!

[80632.398993] Goodbye world!

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Question 2

2) I) LE CODE

2) ii)

insmod reg\_driver.ko

dmesg

[...]

[92121.967341] my\_virtual\_device: module successfully loaded

rmmod reg\_driver

dmesg

[...]

[94437.498828] Module my\_virtual\_device successfully unloaded

2) iii)

cat /proc/devices

Character devices:

[...]

226 drm

246 my\_virtual\_device

247 hidraw

[...]

2) iv)

Ajout des droits a tous les utilistaeur avec chmod:

chmod a+x

chmod a+r

chmod a+w

ls -l /dev/my\_virtual\_device

crwxrwxrwx 1 root root 254, 0 Apr 25 14:25 /dev/my\_virtual\_device