

HÁSKÓLINN Í REYKJAVÍK
REYKJAVIK UNIVERSITY

ENGINEERING DEPARTMENT

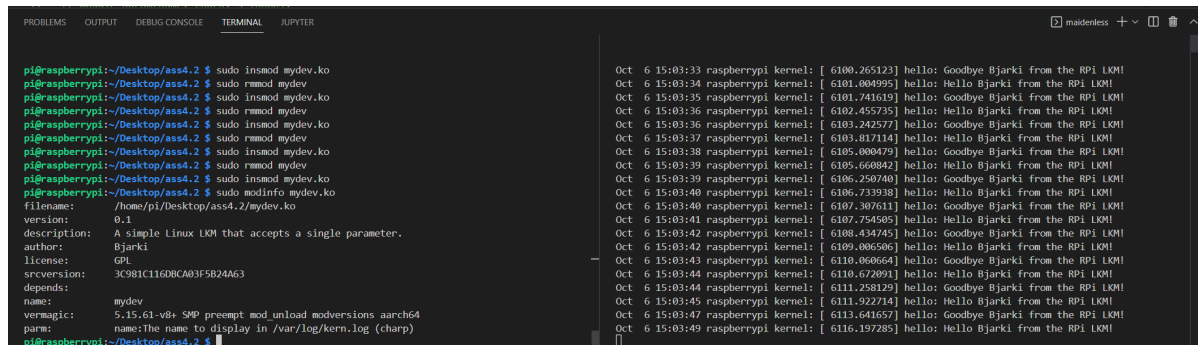
EMBEDDED SYSTEM PROGRAMMING
T-738-EMBE

Assignment 4.2

Bjarki Laxdal
Email: Bjarki18 AT ru.is
Phone: 843-9292

6th October 2022

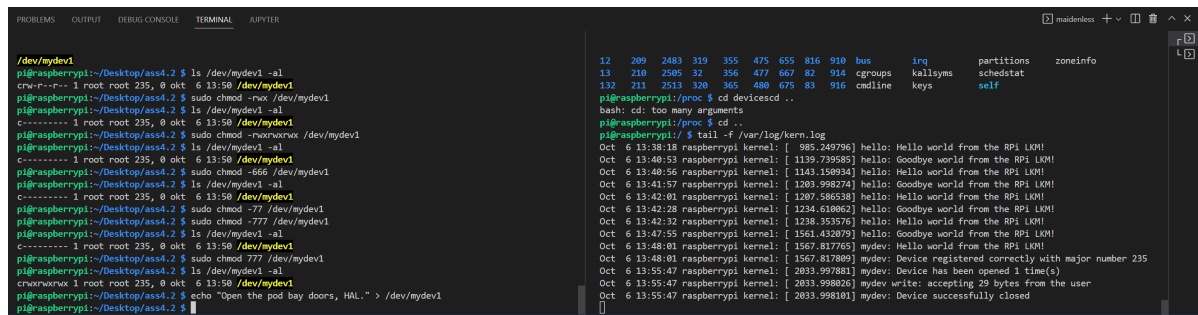
1 Part 1



```
pi@raspberrypi:~/Desktop/ass4.2 $ sudo insmod mydev.ko
pi@raspberrypi:~/Desktop/ass4.2 $ sudo rmmod mydev
pi@raspberrypi:~/Desktop/ass4.2 $ sudo insmod mydev.ko
pi@raspberrypi:~/Desktop/ass4.2 $ sudo rmmod mydev
pi@raspberrypi:~/Desktop/ass4.2 $ sudo insmod mydev.ko
pi@raspberrypi:~/Desktop/ass4.2 $ sudo rmmod mydev
pi@raspberrypi:~/Desktop/ass4.2 $ sudo insmod mydev.ko
pi@raspberrypi:~/Desktop/ass4.2 $ sudo modinfo mydev.ko
filename:       /home/pi/Desktop/ass4.2/mydev.ko
version:        0.1
description:    A simple Linux LKM that accepts a single parameter.
author:         Bjarki
license:        GPL
srcversion:     3C981C116D8CA03F5B2A463
depends:
name:           mydev
vermagic:       5.15.61-v8t SMP preempt mod_unload modversions aarch64
parm:           name:The name to display in /var/log/kern.log (charp)
pi@raspberrypi:~/Desktop/ass4.2 $
```

Figure 1: Part 1

2 Part 2



```
/dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $ ls /dev/mydev1 -al
crw-rw-r-- 1 root root 235, 0 okt 6 13:50 /dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $ sudo chmod -hwx /dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $ ls /dev/mydev1 -al
c----- 1 root root 235, 0 okt 6 13:50 /dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $ sudo chmod -rwxrwxrwx /dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $ ls /dev/mydev1 -al
c----- 1 root root 235, 0 okt 6 13:50 /dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $ sudo chmod -777 /dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $ ls /dev/mydev1 -al
c----- 1 root root 235, 0 okt 6 13:50 /dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $ sudo chmod 777 /dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $ ls /dev/mydev1 -al
crwxrwxrwx 1 root root 235, 0 okt 6 13:50 /dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $ echo "Open the pod bay doors, HAL." > /dev/mydev1
pi@raspberrypi:~/Desktop/ass4.2 $
```

Figure 2: Part 2

3 Part 3

[illegible]

Figure 3: Part 3