## Lab 7.1

Compile, install and test the **hello-5** driver.

Write a report that lists the steps that you followed, and that indicates where you find the outputs.

## Lab 7.2

Compile the **chardev\_SDP\_lab** driver. Compile the program **test\_chardev.c** 

This can be done as a user

As superuser install **chardev\_SDP\_lab** driver.

After you have installed the module, look at the tail of the file /var/log/kern.log, or use the command dmesg | tail.

The output will suggest you how to create the special file /dev/chardev\_SDP\_lab

Execute as superuser test\_chardev /dev/chardev\_SDP\_lab Verify whether it works correctly or not.

Give the command echo something > /dev/chardev\_SDP\_lab Try cat /dev/chardev\_SDP\_lab what is its output?

Why test\_chardev /dev/chardev\_SDP\_lab gives the correct results, whereas cat does not behave as expected?

Correct your device driver to produce the expected results using both **test\_chardev** and **cat**. In particular, verify that executing in sequence the commands:

```
echo something > /dev/chardev_SDP_lab
cat /dev/chardev_SDP_lab
echo xxx > /dev/chardev_SDP_lab
cat /dev/chardev_SDP_lab
```

you get the strings **something** and **xxx**, respectively, nothing else.

## Hints:

Use printk to follow the control and data flow, this should allow you to figure out
what is the difference between test\_chardev and cat and to change your driver
code.

Post your code, a description of your solution, and examples of usage of your driver.