Lab 6.1

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 6.1

Compile, and install the **chardev_SDP_lab** driver. Compile the program **test_chardev.c**

After you install the module look at the tail of the file /var/log/kern.log it will suggest you how to create the special file /dev/chardev_SDP_lab

Execute as root test_chardev /dev/chardev_SDP_lab Verify that it works correctly.

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 so that to cat produces the expected result.

• 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.

• Verify also that executing in sequence the commands:

```
echo "First and " > /dev/chardev_SDP_lab
echo "second string" > /dev/chardev_SDP_lab
cat /dev/chardev_SDP_lab
```

you get the output First and second string.

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.