

# Lab Assignment

Task 1. Create directory "data" into the directory "os". Create the file "database.txt" with the text 'The revised code is now live on the server. Kindly verify its functionality.' within directory "data".

- `cd os`
- `mkdir data`
- `cd data`
- `echo 'The revised code is now live on the server. Kindly verify its functionality.' > database.txt`

Task 2. In the "os" directory create a symbolic (soft) link for the "data" directory and name it "linkTo\_data". (1 point).

- `cd ..` (move to os directory from data directory)
- `ln -s os/data os/linkTo_data`
- `ls -l` (check if there exist a soft link)

Task 3. Create the file with name "records.txt" in the "os" directory and set its permissions to be not writable for all users, including the owner. (1 point).

- `echo "" > records.txt`
- `chmod a-w records.txt`
- `ls -l records.txt` (check the permissions)

Task 4. Create directory "linkTest" and do this task within this directory. Create directory "records". Create the soft link "linkTo\_records" to the directory "records". The link should be movable, i.e. if somebody moves the links to another directory, it should stay valid. (1 point).

- `mkdir linkTest`
- `cd linkTest`
- `mkdir records`
- `ln -s linkTest/records linkTo_records`

Task 5. Get all the information about your files, directories, links, etc. from the "os" directory to your local computer. Grab the files and directories paths of your "os" directory via "ls -R -l" command also. You will need this information for your report later.

- `cd ..`
- `ls -R -l > os_Dir_report.txt`
- `tar -czvf os_backup.tar.gz os/`
- `history > his.txt`

