Exercise sheet 2 – Shell: filesystem directories

Goals:

- Usage of directory functions
- Overview of `/home` directory and their meaning
- Overview of `/` directories and their meaning

Exercise 2.1: Explore `/home/dev`

(a) What is the current directory?

(b) Which files and directories contains this home directory? (all!)

(c) How can you determine if it's a file or a directory?

(d) Which files are in `~/Desktop`?

(e) Is there a difference if you look on your desktop?

Exercise 2.2: Explore `BS_exercises/sheet_02_fs_directories`

(a) Update the `BS_exercises` repository with `git` `pull`

(b) Go to `BS_exercises/sheet_02_fs_directories`

(c) List the whole content with `ls` (recursive?)

(d) Use `tree` to do the same. (Are all files: also hidden contained?)

Exercise 2.3: Explore directory manipulation commands

(a) Create `project` directory

(b) Create `project/doc`, `project/src`, `project/src/package1`, and `project/src/package2` directories with one command.

(c) Create `project/.config` directory

(d) List the contents of `project`

(e) Is `project/.config` missing? How can you see it?

(f) Change to `project/src/package1`, and check if you are on the right place (with one line).

(g) Change back to the last folder with one command and do not specify a path.

(h) Change to `project/src/package2`

(i) Change to `project/src` without explicitly use the name

(j) Change to `project` without explicitly use the name

(k) Remove the created `project` with their subdirectories with the usage of `rmdir`

(l) Change to your home directory without explicitly use `/home/dev`

Exercise 2.4: Explore / filesystem

(a) Change to `/`

(b) List all files and folders

(c) Which files and folders exists

(d) What is the meaning of this files and folders? *(this may take some time: complete this at home if necessary)*

- Also take `/etc/*`, `/usr/*`, and `/var/*` into account
- Use the internet to find neccessary information and the "Filesystem Hierarchy Standard".
- Create a table with all that information