

Solutions: Unix Basics

Task 1

```
max@surface-pro-6:~$ ls -l
total 64
drwxrwxr-x  3 max max 4096 Apr 11 15:09 Applications
drwxrwxr-x  4 max max 4096 Apr 15 12:25 'Calibre Library'
drwxr-xr-x  2 max max 4096 Apr  2 13:21 Desktop
drwxr-xr-x  3 max max 4096 Apr 20 10:15 Documents
drwxr-xr-x  6 max max 4096 Apr 20 10:02 Downloads
drwxrwxr-x  5 max max 4096 Apr 11 14:57 'Filen Sync'
drwxrwxr-x  7 max max 4096 Apr 19 19:15 Git
drwxrwxr-x  3 max max 4096 Apr 19 18:37 GitHub
drwxr-xr-x  2 max max 4096 Apr  7 11:47 Music
drwxr-xr-x  4 max max 4096 Apr 18 17:07 Pictures
drwxr-xr-x  2 max max 4096 Mär  8 15:43 Public
drwxrwxr-x  3 max max 4096 Mär 12 12:57 R
drwx----- 21 max max 4096 Apr 17 21:34 snap
drwxrwxr-x  3 max max 4096 Mär 27 18:25 Sync
drwxr-xr-x  2 max max 4096 Mär  8 15:43 Templates
drwxr-xr-x  3 max max 4096 Apr  3 12:44 Videos
max@surface-pro-6:~$ cd ~
max@surface-pro-6:~$ cd /
max@surface-pro-6:/$ cd -
/home/max
max@surface-pro-6:~$ cd Documents/
max@surface-pro-6:~/Documents$ mkdir M3RTS
max@surface-pro-6:~/Documents$ rm -r M3RTS/
max@surface-pro-6:~/Documents$ mkdir m3rts
max@surface-pro-6:~/Documents$ cd m3rts/
max@surface-pro-6:~/Documents/m3rts$
```

Task 2

- `whoami`

Prints the current user.

- `groups`

Prints the groups of the current user.

- `pwd`

Prints the current directory.

- `date`

Prints the date and time.

- `echo Hallo`

Prints `Hallo` on terminal.

- `echo $PATH`

Prints the directories of the environment variable `PATH` from where executables can be executed without navigating to the directory or adding the path before it.

- `export MYLABEL=blabla`

Creates a new environment variable with the name `MYLABEL` which has the value `blabla` assigned.

- `echo $MYLABEL`

Prints the value of the created environment variable.

- `ps -ef`

`ps` stands for *process status* and is used to print the current running processes. The option `-e` selects all processes and the options `-f` formats the output.

- `ps -ef > ps.out`

Writes the output of `ps -ef` in the file `ps.out`

- `cat ps.out`

Prints the content of the file `ps.out`

- `more ps.out`

Similar to `cat`, `more` display the content of the file. While `cat` always prints the whole content `more` only prints the parts of the file which fit on the terminal. If more content is stored in the file than it's printable with `more` you scroll down using `enter`

- `less ps.out`

Similar to `more` it prints the content of a file which fits on the screen.

- `head ps.out`

Prints the first 10 lines of a file.