Exercise 1

Create a directory "week01" in home directory.

- **mkdir ~/week01**
- **cd ~/week01**

List last 5 entries in /usr/bin that contain **"gcc"** in reverse alphabetical order. Save results in

- **"~/week01/ex1.txt"**.

Note: you should submit the file *ex1.txt* and the script *ex1.sh* which contains the commands you've run for this exercise.

Exercise 2

Try some commands and save command history to "~/**week01/ex2.txt**". Store the commands in a script *ex2.sh*

Note: you should submit the file *ex2.txt*, and the script *ex2.sh*.

Hints: use *history* command for getting the list of commands executed recently.

Exercise 3

Write a shell script **ex3.sh** that creates two files (*root.txt, home.txt*) inside two separate new folders. Before creating the next item (file or folder), print the date and wait for 3 seconds.

The file *root.txt* contains the items of the root directory '/', whereas the file *home.txt* contains the items of the home directory '~'. The items of both directories should be sorted by time (oldest first). Print the content of files and display items of your new folders.

Note: you should submit the files *root.txt* and *home.txt*, and the script **ex3.sh**.

Hints: use the command **date** for getting the current date, and **sleep x** command for pausing the execution x seconds. Run the script with: **bash ex3.sh**.

Exercise 4

Write "Hello world" in the C language. Create source file:
gedit ~ /week01/main.c
Write program:

```c
#include <stdio.h>
int main(void)
{
    printf("Hello World!");
}
```

Compile the program, where ex4 is name of executable file:

- **gcc main.c -o ex4**

Run the program with:

- **./ex4**

Note: you should submit the files **main.c** and **ex4**.