

Lab2

Flags. Environment Variable OLDPWD. Additional work with directories and files.

Read carefully the instructions before performing!!!

Submission in pairs : 25/11/24 for the groups of Monday
28/11/24 for the groups of Thursday

Objectives

- To learn how to use flags.
- More work with directories.
- First use of environment variables.

Linux Commands

1. **echo** name - print the name.
2. **echo** \$name - print the contents of variable name.
3. **touch** file_name - creates file file_name (if doesn't exist) or modify timestamp (if exists).
4. **touch** f1 f2 f3 - as touch, but for multifiles.
5. **ls -l** - lists the files with their characteristics.
6. **ls -a** - lists all the files (including the hiding).
7. **.** - the current directory.
8. **cd ..** - go to the upper directory.
9. **OLDPWD** - an environment variable which contains directory before the last **cd** command.
10. **rm** file_name - Remove the file file_name .
10. **rm -d** dir_name - Remove the dir_name directory.
11. **rm -rf** dir_name - Remove the directory dir_name and their contents recursively.
12. **man -k** term - find the possible using of the term.

Procedures

1. Print your name (use **echo**).
2. Print the word OLDPWD.
3. Create a new directory Lab2 (use **mkdir**).
4. In Lab2, create a new directory TryDir.
5. In Lab2, create a new directory EmptyDir.
6. In Lab2, create a file named *foo1* (use **touch**).
7. In **TryDir**, create 3 files foo1, foo2, foo3 (use **touch** only one time).
8. Show the contents of the directory TryDir (use **ls, ls -a, ls -l, ls -la, ls -latr**).
9. Change the timestamp of the file foo1 (is the timestamp indeed was modified?)
10. Go back to the directory Lab2 (use **cd ..**).
11. Print the value of the env. variable OLDPWD (use **echo \$OLDPWD**)
12. Comeback to TryDir (use **cd ./TryDir**).
13. Print the value of the env. variable OLDPWD. (Do you see the difference?)
14. Print the value of your name (used above in 1). What do you see?
15. Check where you are.
16. Write in **lab2.sh** all the above (1-15) commands.
17. Remove the directory EmptyDir from Lab2 (use **rm**).
18. Try to remove the directory TryDir from Lab2, using **rm**.
19. Remove the directory TryDir from Lab2 (use **rm -rf**).
20. Use **man -k list**. What do you see?

Submission:

Create the file **lab2.sh** and the file **answers.txt**. The file answers.txt is an additional text file which will contain the answers to the above questions in 9,13,14.

Create one compressed file named **Linux_Lab2_id1_id2.tar**, where id1 and id2 must be changed to the id numbers of the two partners.

This file will include the files lab2.sh and answers.txt.

To create such file in Linux command line write:

```
$ tar -cvf Linux_Lab2_id1_id2.tar lab2.sh answers.txt
```

Submit **only** the file **Linux_Lab2_id1_id2.tar** in Moodle and only by **one** of the partners.