

# Linux exercise 4 - Basic commands

1. What is the path for your home directory? How do you change your current working directory to your home directory?

```
menom@ab0208:/$ cd /home/menom
menom@ab0208:~$
```

2. How can you find out your current working directory?

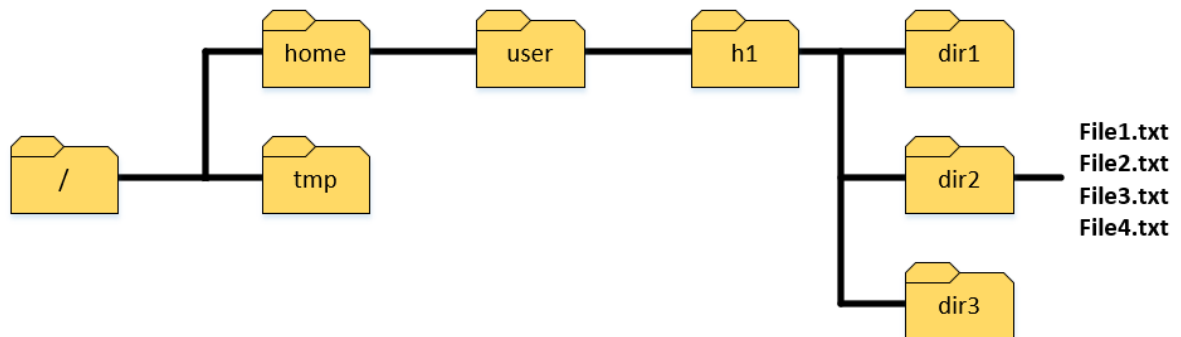
```
menom@ab0208:~$ pwd
/home/menom
```

3. Explain briefly what option -p does when used with mkdir command. In addition, find out what version number of mkdir command you have.

**Ans:** The command creates parent directory, if it (directory) already exists then it creates sub-directory.

```
menom@ab0208:~$ mkdir --version
mkdir (GNU coreutils) 8.30
```

4. Create the following directory structure including the files to your home directory using your Linux shell. Files can be empty or containing text.



```
menom@ab0208:~$ tree
.
├── home
│   └── user
│       └── h1
│           ├── dir1
│           ├── dir2
│           │   ├── File1.txt
│           │   ├── File2.txt
│           │   ├── File3.txt
│           │   └── File4.txt
│           └── dir3
└── tmp
```

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- Copy all files with .txt extension from dir2 to dir1 using relative path for directories using only one command.

```
menom@ab0208:~/home/user/h1$ cp -r dir2/*.txt dir1
```

- Move all files starting with string File1 from dir2 to dir3 using absolute path for directories using only one command.

```
menom@ab0208:~/home/user$ mv /home/menom/home/user/h1/dir2/File1* /home/menom/home/user/h1/dir3
```

- Create tmp directory inside your home directory. Copy directory structure created in fourth part starting from directory h1 into the tmp directory in one command. The final directory tree should then look like this: /home/your\_user/tmp/h1...

```
menom@ab0208:~$ cp -r home/user/* home/my_user/tmp/
```

- Remove tmp/h1 directory structure from your home directory using only one command.

```
menom@ab0208:~/home/my_user$ rm -r tmp/h1
```

- Rename File1.txt file under dir1 in a way it begins with string NewFileX1 (File1.txt → NewFileX1.txt)

```
menom@ab0208:~/home/user/h1/dir1$ mv File1.txt NewFileX1.txt
```

- How do you distinguish the following two paths: relative and absolute? What do these terms mean? Give examples from both paths.

**Ans:** An absolute path directs a complete pathway from root directory to destination folder or file whereas a relative path works only in the current working directory in shorter form of pathway.

Relative path is related to the current working directory and absolute path can take to the destination directory from any working directory.

### Example:

Absolute path is represented by the complete pathway to the desired folder.

```
menom@ab0208:/$ cd /home/menom/home/user/h1/dir1
menom@ab0208:~/home/user/h1/dir1$ _
```

Relative path is executed only if the particular folder exists in the current working directory.

```
menom@ab0208:~$ cd tmp
menom@ab0208:~/tmp$
```