

Lab 3

Basic Linux commands - I

cd

Syntax: cd [directory]

Description: Change the current working directory to the specified directory.

- **ls**

Syntax: ls [options] [directory]

Description: List files and directories in the specified directory.

A terminal window titled 'momik@pop-os: ~/Lab3' with search, menu, and window control icons. The command history shows 'momik@pop-os:~\$ cd Lab3' and the current prompt is 'momik@pop-os:~/Lab3\$' with a cursor.

```
momik@pop-os:~$ cd Lab3
momik@pop-os:~/Lab3$
```

- **cp**

Syntax: cp [options] source destination

Description: Copy files or directories from source to destination.

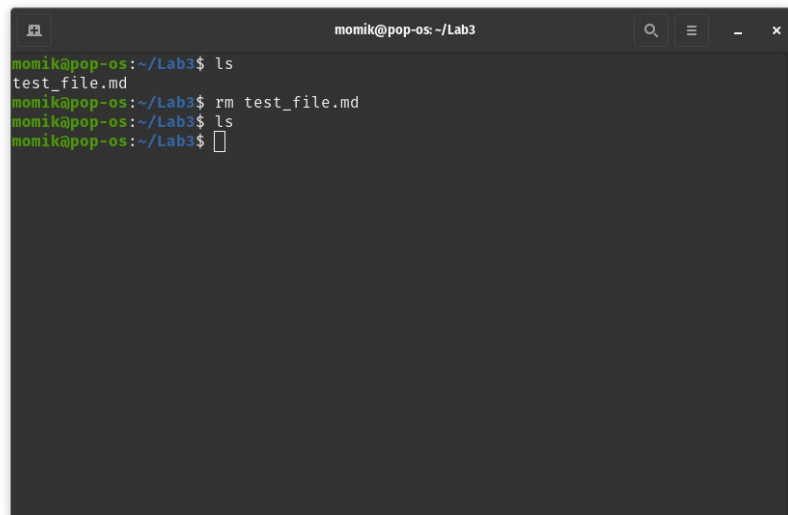
A terminal window titled 'momik@pop-os: ~/Lab3' with search, menu, and window control icons. The command history shows 'momik@pop-os:~/Lab3\$ ls' and the output is 'test_file.md'. The current prompt is 'momik@pop-os:~/Lab3\$' with a cursor.

```
momik@pop-os:~/Lab3$ ls
test_file.md
momik@pop-os:~/Lab3$
```

- **rm**

Syntax: rm [options] file

Description: Remove (delete) files or directories.

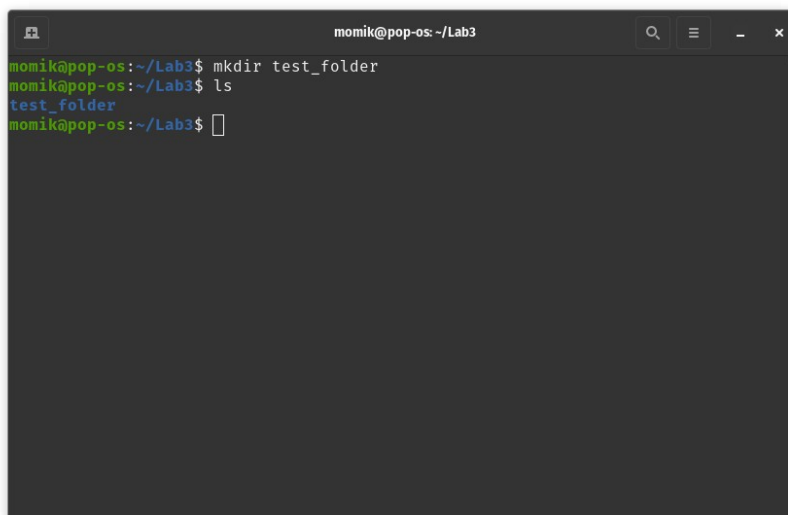
A terminal window titled 'momik@pop-os: ~/Lab3' with search, menu, and window control icons. It shows a sequence of commands: 'ls' which outputs 'test_file.md', 'rm test_file.md', and another 'ls' which outputs an empty line, indicating the file has been removed.

```
momik@pop-os:~/Lab3$ ls
test_file.md
momik@pop-os:~/Lab3$ rm test_file.md
momik@pop-os:~/Lab3$ ls
momik@pop-os:~/Lab3$
```

- **mkdir**

Syntax: mkdir [options] directory

Description: Create a new directory with the specified name.

A terminal window titled 'momik@pop-os: ~/Lab3' with search, menu, and window control icons. It shows the command 'mkdir test_folder' followed by 'ls', which outputs 'test_folder', confirming the directory was created.

```
momik@pop-os:~/Lab3$ mkdir test_folder
momik@pop-os:~/Lab3$ ls
test_folder
momik@pop-os:~/Lab3$
```

- **rmdir**

Syntax: rmdir [options] directory

Description: Remove an empty directory.



```
momik@pop-os: ~/Lab3
momik@pop-os:~/Lab3$ ls
test_folder
momik@pop-os:~/Lab3$ rmdir test_folder/
momik@pop-os:~/Lab3$ ls
momik@pop-os:~/Lab3$
```

- **pwd**
Syntax: pwd
Description: Print the current working directory.



```
momik@pop-os: ~/Lab3
momik@pop-os:~/Lab3$ pwd
/home/momik/Lab3
momik@pop-os:~/Lab3$
```

- **file**

Syntax: file [options] file

Description: Determine the type of a file.

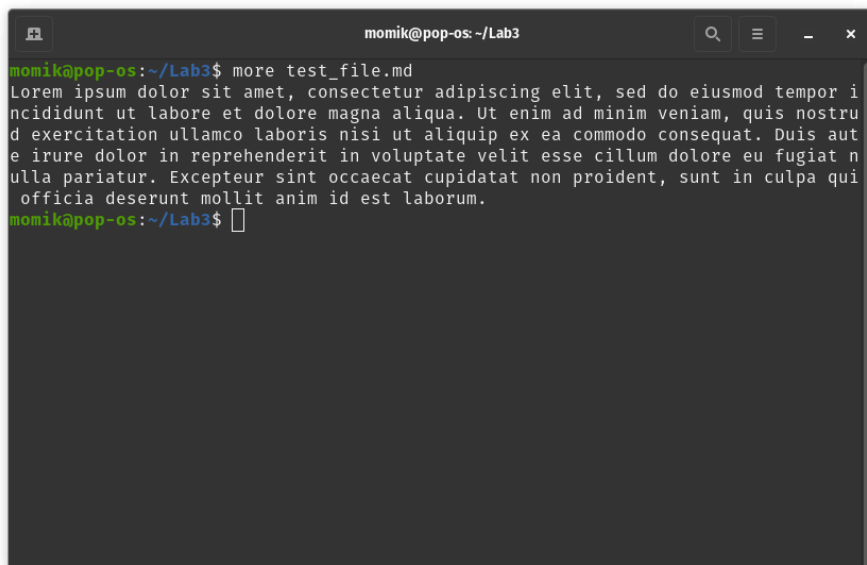
A terminal window titled 'momik@pop-os: ~/Lab3' showing the execution of the 'file' command. The user first lists the contents of the directory with 'ls', which shows 'test_file.md'. Then, they run 'file test_file.md', and the output is 'test_file.md: empty'.

```
momik@pop-os:~/Lab3$ ls
test_file.md
momik@pop-os:~/Lab3$ file test_file.md
test_file.md: empty
momik@pop-os:~/Lab3$
```

- **more**

Syntax: more [options] file

Description: View file contents one screen at a time.

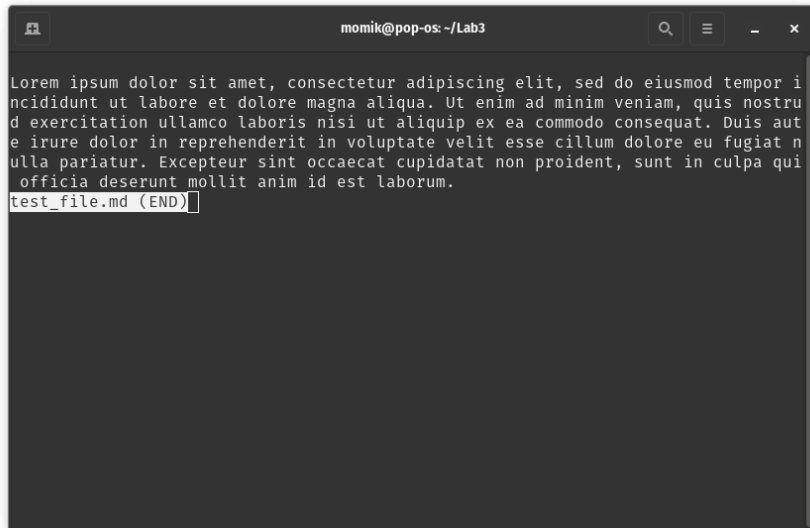
A terminal window titled 'momik@pop-os: ~/Lab3' showing the execution of the 'more' command. The user runs 'more test_file.md', and the terminal displays a block of Lorem Ipsum text. The prompt 'momik@pop-os:~/Lab3\$' is visible at the bottom of the text block.

```
momik@pop-os:~/Lab3$ more test_file.md
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor i
ncidunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostru
d exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aut
e irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat n
ulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui
officia deserunt mollit anim id est laborum.
momik@pop-os:~/Lab3$
```

- **less**

Syntax: less [options] file

Description: View file contents with the ability to scroll up and down.

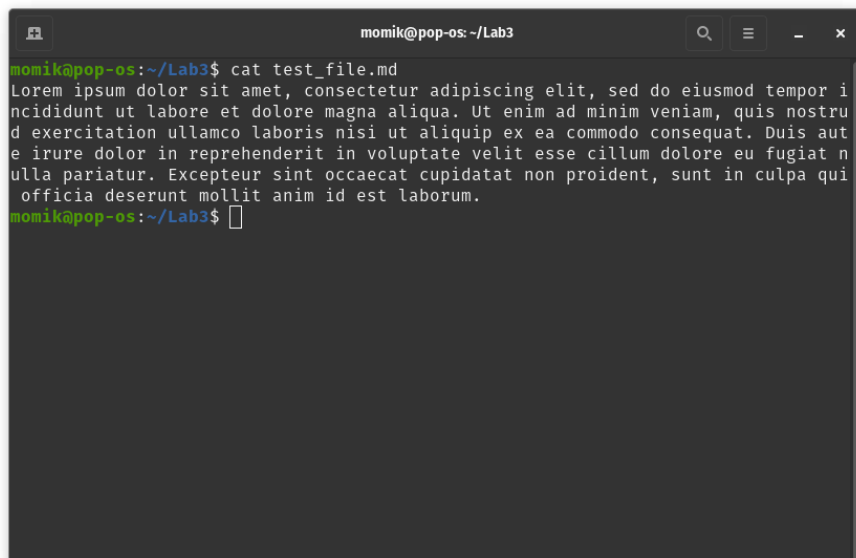
A terminal window titled 'momik@pop-os: ~/Lab3' with search, menu, and window control icons. It displays the content of a file named 'test_file.md'. The content is a block of Lorem Ipsum text: 'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.' The prompt 'test_file.md (END)' is shown at the bottom of the text block.

```
momik@pop-os: ~/Lab3
test_file.md (END)
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor i
ncidunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostru
d exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aut
e irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat n
ulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui
officia deserunt mollit anim id est laborum.
```

- **cat**

Syntax: cat [options] file

Description: Concatenate and display file content.

A terminal window titled 'momik@pop-os: ~/Lab3' with search, menu, and window control icons. It shows the command 'cat test_file.md' being executed. The output is the same Lorem Ipsum text as in the previous image. The prompt 'momik@pop-os: ~/Lab3\$' is shown at the bottom.

```
momik@pop-os: ~/Lab3$ cat test_file.md
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor i
ncidunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostru
d exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aut
e irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat n
ulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui
officia deserunt mollit anim id est laborum.
momik@pop-os: ~/Lab3$
```

- **chmod**

Syntax: chmod [options] mode file

Description: Change the permissions of a file or directory.

```
momik@pop-os: ~/Lab3
momik@pop-os:~/Lab3$ ls -lh
total 4.0K
-rw-rw-r-- 1 momik momik 446 Jul 30 12:28 test_file.md
momik@pop-os:~/Lab3$ chmod 755 test_file.md
momik@pop-os:~/Lab3$ ls -lh
total 4.0K
-rwxr-xr-x 1 momik momik 446 Jul 30 12:28 test_file.md
momik@pop-os:~/Lab3$
```

- **chown**

Syntax: chown [options] owner[:group] file

Description: Change the ownership of a file or directory.

```
momik@pop-os: ~/Lab3
momik@pop-os:~/Lab3$ sudo chown testuser:testgroup test_file.md
momik@pop-os:~/Lab3$ ls -lh
total 4.0K
-rwxr-xr-x 1 testuser testgroup 446 Jul 30 12:28 test_file.md
momik@pop-os:~/Lab3$
```