Lab 4

Basic Linux commands – II

1. touch

Syntax: touch [options] file

Description: Create an empty file or update the timestamp of an existing file.

```
momik@pop-os:~/Lab4$ touch new_file.txt
momik@pop-os:~/Lab4$ ls
new_file.txt
momik@pop-os:~/Lab4$ [
```

2. **pwd**

Syntax: pwd

Description: Print the current working directory.

```
momik@pop-os:~/Lab4$ pwd
/home/momik/Lab4
momik@pop-os:~/Lab4$ [
```

3. **cat**

Syntax: cat [options] file

Description: Concatenate and display the contents of files.

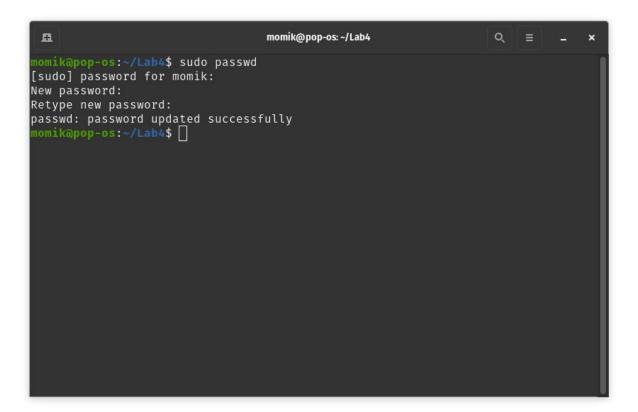
```
momik@pop-os:-/Lab4$ cat new_file.txt
Hello this is text content in file
momik@pop-os:-/Lab4$ 

momik@pop-os:-/Lab
```

4. passwd

Syntax: passwd [options] [username]

Description: Change the user's password. If no username is specified, it changes the password for the current user.



5. date

Syntax: date [options]

Description: Display or set the system date and time.

```
momik@pop-os:~/Lab4$ date
Tue Jul 30 12:49:50 PM +0545 2024
momik@pop-os:~/Lab4$
```

6. head

Syntax: head [options] [file]

Description: Output the first part of files. By default, it shows the first 10 lines.

```
momik@pop-os:-/Lab4$ head new_file.txt
Hello this is text content in file
momik@pop-os:-/Lab4$ 

momik@pop-os:-/La
```

7. tail

Syntax: tail [options] [file]

Description: Output the last part of files. By default, it shows the last 10 lines.



8. cut

Syntax: cut [options] [file]

Description: Remove sections from each line of files. Often used to extract specific fields or columns.

```
momik@pop-os:~/Lab4$ cat sample_data.txt
name:John:age:30:city:New York
name:Jane:age:25:city:Los Angeles
name:Emily:age:28:city:Chicago
momik@pop-os:~/Lab4$ cut -d':' -f4 sample_data.txt
30
25
28
momik@pop-os:~/Lab4$ [
```

9. sort

Syntax: sort [options] [file]

Description: Sort lines of text files.

```
momik@pop-os:~/Lab4$ cat sample_data.txt
name:John:age:30:city:New York
name:Jane:age:25:city:Chicago
momik@pop-os:~/Lab4$ sort sample_data.txt
name:Emily:age:28:city:Chicago
name:Emily:age:28:city:Chicago
name:Jane:age:25:city:Los Angeles
name:John:age:30:city:New York
momik@pop-os:~/Lab4$
```

10.grep

Syntax: grep [options] pattern [file]

Description: Search for patterns within files and output matching lines.

```
momik@pop-os:~/Lab4$ cat sample_data.txt
name:John:age:30:city:New York
name:Jane:age:25:city:Los Angeles
name:Emily:age:28:city:Chicago
momik@pop-os:~/Lab4$ grep -n "John" sample_data.txt
1:name:John:age:30:city:New York
momik@pop-os:~/Lab4$
```