

# Mawlana Bhashani Science and Technology University Lab-Report

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# **Submitted by**

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## **Submitted To**

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Lab-Report Name: Basic Command of Linux Operating System.

Theory

What is Linux command?

The Linux command is a utility of the Linux operating system. All basic and advanced tasks

can be done by executing commands. The commands are executed on the Linux terminal.

The terminal is a command-line interface to interact with the system, which is similar to the

command prompt in the Windows OS. Commands in Linux are case-sensitive. Linux provides a powerful command-line interface compared to other operating systems such as Windows and MacOS. We can do basic work and advanced work through its terminal. We can do some basic tasks such as creating a file, deleting a file, moving a file

and more. In addition, we can also perform advanced tasks such as administrative tasks (including package installation, user management), networking tasks (ssh connection), security tasks, and many more.

Linux terminal is a user-friendly terminal as it provides various support options. To open the

Linux terminal, press "CTRL + ALT + T" keys together, and execute a command by pressing

the 'ENTER' key.

Write 15 commands in Linux operating system.

## 1. pwd Command

The pwd command is used to display the location of the current working directory. Syntax:

pwd

#### 2. mkdir Command

The mkdir command is used to create a new directory under any directory. Syntax:mkdir <directory name>

#### 3. rmdir Command

The rmdir command is used to delete a directory.

Syntax:

rmdir<directoryname>

#### 4. ls Command

The ls command is used to display a list of content of a directory.

Syntax:

ls

#### 5. cd Command

The cd command is used to change the current directory.

Syntax:

cd<directoryname>

#### 6. touch Command

The touch command is used to create empty files. We can create multiple empty files by executing it once.

Syntax:

touch <file name>

touch<file1><file2>...

#### 7. cat Command

The cat command is a multi-purpose utility in the Linux system. It can be used to create a

file, display content of the file, copy the content of one file to another file, and more.Syntax:cat [OPTION]...[FILE]..

To create a file, execute it as follows:

cat><file name>

// Enter file content

Press "CTRL+ D" keys to save the file. To display the content of the file, execute it as follows:

cat<filename>

#### 8. rm Command

The rm command is used to remove a file.

Syntax:

rm <file name>

### 9. cp Command

The cp command is used to copy a file or directory.

Syntax:

To copy in the same directory:

cp<existing file name> <new file name>

To copy in a different directory:

#### 10. my Command

The mv command is used to move a file or a directory form one location to another location.

Syntax:

mv<filename><directorypath>

11. rename Command

The renamecommand is used to rename files. It is useful for renaming a large group of files. Syntax:rename 's/old-name/new-name/' files

For example, to convert all the text files into pdf files, execute the below command: rename 's\.txt\$\.pdf\' \*.txt

#### 12. head Command

The head command is used to display the content of a file. It displays the first 10 lines of a

file.

Syntax:

head<filename>

#### 13. sort Command

The sortcommand is used to sort files in alphabetical order.

Syntax:

sort <filename>

#### 14.date Command

The datecommand is used to display date, time, time zone, and more.

Syntax:

date

#### 15.cal Command

The calcommand is used to display the current month's calendar with the current date highlighted.

Syntax:

cal

Describe the operation of Linux basic command.(Screenshot)

1 pwd , mkdir, rmdir,ls2.

```
abdullah@abdullah-VirtualBox: ~
File Edit View Search Terminal Help
abdullah@abdullah-VirtualBox:~$ pwd
/home/abdullah
abdullah@abdullah-VirtualBox:~$ mkdir new directory
abdullah@abdullah-VirtualBox:~$ rmnew directorydir
rmnew directorydir: command not found
abdullah@abdullah-VirtualBox:~$ rmdir new_directory
abdullah@abdullah-VirtualBox:~$ ls
 demo
                    IT-18040 CT-01.pdf
                                              snap
                    IT-18040 CT-01.pdf.odt
 Desktop
                                              Templates
                   'IT-18040 CT- 1.pdf'
 Documents
                                              test
 Downloads
                    Music
                                              Videos
examples.desktop Pictures
hello.java
                    Public
abdullah@abdullah-VirtualBox:~$
```

#### cd. Touch,ls,cat3.

```
abdullah@abdullah-VirtualBox: ~/Desktop
                                                          File Edit View Search Terminal Help
abdullah@abdullah-VirtualBox:~$ rmnew directorvdir
rmnew directorydir: command not found
abdullah@abdullah-VirtualBox:~$ rmdir new directory
abdullah@abdullah-VirtualBox:~$ ls
demo
                    IT-18040 CT-01.pdf
                                              snap
                    IT-18040 CT-01.pdf.odt
Desktop
                                             Templates
Documents
                   'IT-18040 CT- 1.pdf'
                                             test
                    Music
Downloads
                                             Videos
examples.desktop
                   Pictures
hello.java
                    Public
abdullah@abdullah-VirtualBox:~$ cd Desktop
abdullah@abdullah-VirtualBox:~/Desktop$ touch Demo.txt
abdullah@abdullah-VirtualBox:~/Desktop$ touch Demo1.txt
abdullah@abdullah-VirtualBox:~/Desktop$ ls
abdullah
                               'Exam Question'
abdullah IT 18040 CT 3.pdf
                               lab 3.odt
Abdullah IT-18040 lab-3.odt
                              lab report
Demo1.txt
                               mamun
                               operatiingSystem
Demo.txt
abdullah@abdullah-VirtualBox:~/Desktop$ cat > test.txt
This is a test file .
```

```
abdullah@abdullah-VirtualBox: ~/Desktop
                                                               File Edit View Search Terminal Help
abdullah@abdullah-VirtualBox:~/Desktop$ mkdir test1.txt
abdullah@abdullah-VirtualBox:~/Desktop$ mkdir test2.txt
abdullah@abdullah-VirtualBox:~/Desktop$ ls
 abdullah
                                lab report
 abdullah IT 18040 CT 3.pdf
                                mamun
 Abdullah IT-18040 lab-3.odt
                               operatiingSystem
 Demo1.txt
                                test1.txt
'Exam Question'
                                test2.txt
 lab 3.odt
                                test.txt
abdullah@abdullah-VirtualBox:~/Desktop$ touch demo3.txt
abdullah@abdullah-VirtualBox:~/Desktop$ touch demo4.txt
abdullah@abdullah-VirtualBox:~/Desktop$ touch demo5.txt
abdullah@abdullah-VirtualBox:~/Desktop$ ls
 abdullah
                                lab 3.odt
 abdullah IT 18040 CT 3.pdf
                                lab report
 Abdullah IT-18040 lab-3.odt
                                mamun
                                operatiingSystem
 Demo1.txt
 demo3.txt
                                test1.txt
 demo4.txt
                                test2.txt
 demo5.txt
                                test.txt
'Exam Question'
abdullah@abdullah-VirtualBox:~/Desktop$ cp demo4.txt demo5.txt
abdullah@abdullah-VirtualBox:~/Desktop$ mv demo3.txt Directory
abdullah@abdullah-VirtualBox:~/Desktop$
```

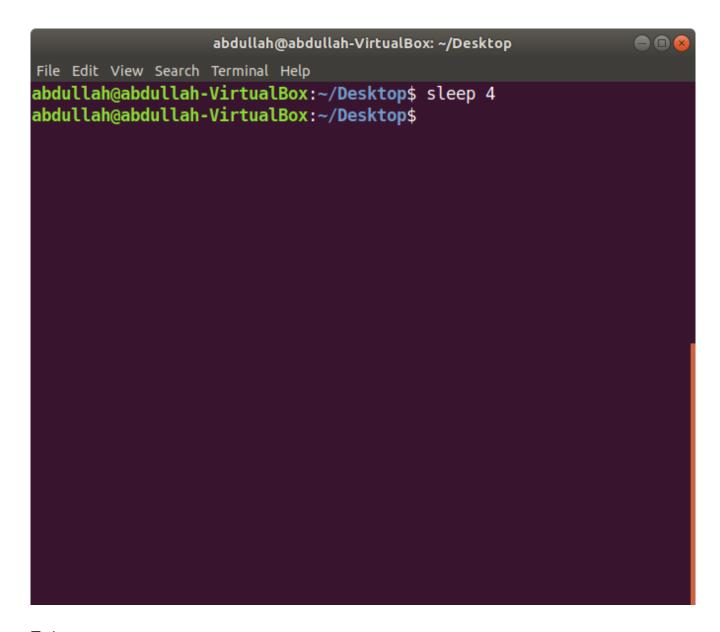
head, tail,tac, more, less5.

```
abdullah@abdullah-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
abdullah@abdullah-VirtualBox:~/Desktop$ cd Desktop
bash: cd: Desktop: No such file or directory
abdullah@abdullah-VirtualBox:~/Desktop$ ls
 abdullah
                               demo5.txt
                                                 mamun
 abdullah IT 18040 CT 3.pdf
                                                 operatiingSystem
                               Directory
                               'Exam Question'
 Abdullah_IT-18040 lab-3.odt
                                                test1.txt
 Demo1.txt
                               lab 3.odt
                                                test2.txt
                               lab report
 demo4.txt
                                                 test.txt
abdullah@abdullah-VirtualBox:~/Desktop$ head demo4.txt
abdullah@abdullah-VirtualBox:~/Desktop$ tail demo4.txt
abdullah@abdullah-VirtualBox:~/Desktop$ tac demo4.txt
abdullah@abdullah-VirtualBox:~/Desktop$ more Downloads
more: stat of Downloads failed: No such file or directory
abdullah@abdullah-VirtualBox:~/Desktop$ more lab report
*** lab report: directory ***
abdullah@abdullah-VirtualBox:~/Desktop$ less lab report
lab report is a directory
abdullah@abdullah-VirtualBox:~/Desktop$
```

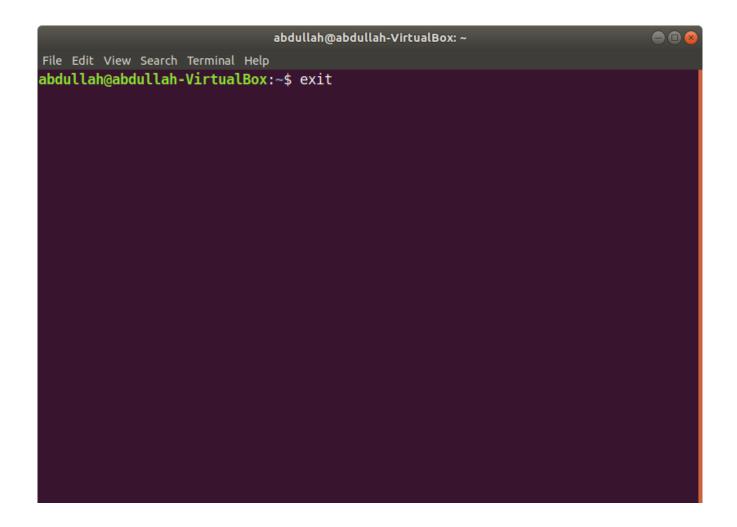
Sort, Date6.

```
abdullah@abdullah-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
abdullah@abdullah-VirtualBox:~/Desktop$ sort Demo1.txt
my name is abdullah
abdullah@abdullah-VirtualBox:~/Desktop$ date
Fri Sep 11 16:32:39 +06 2020
abdullah@abdullah-VirtualBox:~/Desktop$
```

```
abdullah@abdullah-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
abdullah@abdullah-VirtualBox:~/Desktop$ cal
   September 2020
Su Mo Tu We Th Fr Sa
       1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 <u>19</u>
20 21 22 23 24 25 26
27 28 29 30
abdullah@abdullah-VirtualBox:~/Desktop$
```



Exit



## Discussion:

Before we go on to the list of commands, you need to open the command line first. The Linux command line is a text interface to your computer. Often referred to as the shell, terminal, console, prompt or various other names, it can give the appearance of being complex and confusing to use.