Lab-report no: 02

Name of the lab report: Basic Command of Linux Operating System

Objectives:

- 1. What is Linux command?
- 2. Write 15 commands in Linux operating system.
- 3.Describe the operation of Linux basic command.(Screenshot)

Linux command:

Linux is a Unix-Like operating system. All the Linux/Unix commands are run in the terminal provided by the Linux system. This terminal is just like command prompt of Windows OS. Linux/Unix commands are *case-sensitive*.

1. **hostname** command: the hostname commands shows the system host name.

```
abdullah@abdullah-X455LAB: ~ \\
File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

abdullah@abdullah-X455LAB: ~ \$ hostname
abdullah-X455LAB
abdullah@abdullah-X455LAB: ~ \$ \[ \]
```

2. **pwd** command: It shows the directory you're currently in.

3. ls command: It shows the contents of a particular directory – both files and directories.

```
abdullah@abdullah-X455LAB: ~ \\
File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

abdullah@abdullah-X455LAB: ~ $ ls
Desktop Downloads Music Public Videos
Documents examples.desktop Pictures Templates
abdullah@abdullah-X455LAB: ~ $
```

4. **whoami** command: It is basically the concatetion of the strings "who", "am", "i". It displays the username of the current user when this command is invoked.

5. **cal** command: Displays the calendar of the current month.

```
abdullah@abdullah-X455LAB: ~ ● • ● ● ● File Edit View Search Terminal Help

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

abdullah@abdullah-X455LAB:~$ cal
সংগ্ৰের 2019
রব সংগ্রের 2019
রব সংগ্রের 2019
রব সংগ্রেষ্ঠ বু বৃ শুশন বৃ শুশন শুশন শন
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

abdullah@abdullah-X455LAB:~$
```

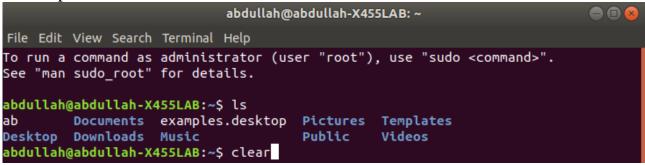
6. **date** command: Displays current time and date.

```
abdullah@abdullah-X455LAB: ~ ি 🗈 🔊
File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

abdullah@abdullah-X455LAB:~$ date
মগুলে সংগ্ৰেব্য 3 18:06:32 +06 2019
abdullah@abdullah-X455LAB:~$
```

7. **clear** command: this command clear the screen.

Before press the enter:



after clear command:

8. **cd** command: Change to directory . Here after changing directory I go to Documents directory.

```
abdullah@abdullah-X455LAB: ~/Documents
                                                                            File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
abdullah@abdullah-X455LAB:~$ pwd
/home/abdullah
abdullah@abdullah-X455LAB:~$ ls
         Documents examples.desktop Pictures Templates
ab
         Downloads Music
                                                Videos
Desktop
abdullah@abdullah-X455LAB:~$ cd Documents
abdullah@abdullah-X455LAB:~/Documents$ ls
lab-report -02.odt
Screenshot from 2019-09-03 17-36-41.png
Screenshot from 2019-09-03 17-40-12.png
Screenshot from 2019-09-03 17-45-13.png
Screenshot from 2019-09-03 17-46-23.png
Screenshot from 2019-09-03 17-56-50.png
Screenshot from 2019-09-03 18-06-54.png
Screenshot from 2019-09-03 18-10-26.png
Screenshot from 2019-09-03 18-10-48.png
abdullah@abdullah-X455LAB:~/Documents$ pwd
/home/abdullah/Documents
abdullah@abdullah-X455LAB:~/Documents$
```

9. **mkdir** command: mkdir command in Linux allows the user to create directories. Here I create the khalid directory.

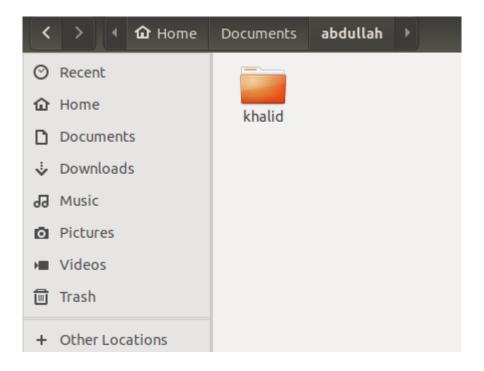
```
abdullah@abdullah-X455LAB: ~/Documents/abdullah

File Edit View Search Terminal Help

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

abdullah@abdullah-X455LAB:~$ pwd
/home/abdullah
abdullah@abdullah-X455LAB:~$ cd Documents
abdullah@abdullah-X455LAB:~/Documents$ mkdir abdullah
abdullah@abdullah-X455LAB:~/Documents$ cd abdullah
abdullah@abdullah-X455LAB:~/Documents/abdullah$ ls
abdullah@abdullah-X455LAB:~/Documents/abdullah$ ls
khalid
abdullah@abdullah-X455LAB:~/Documents/abdullah$ ls
khalid
abdullah@abdullah-X455LAB:~/Documents/abdullah$ |
```



10. **rmdir** command: rmdir command is used remove empty directories from the filesystem in Linux. The rmdir command removes each and every directory specified in the command line only if these directories are empty. Here I first create a directory hello and then I remove that file by using rmdir.

```
abdullah@abdullah-X455LAB: ~/Documents
File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
abdullah@abdullah-X455LAB:~$ ls
Desktop Downloads
                           Music
                                      Public
                                                  Videos
Documents examples.desktop Pictures Templates
abdullah@abdullah-X455LAB:~$ cd Documents
abdullah@abdullah-X455LAB:~/Documents$ ls
abdullah lab-report -02.odt
abdullah@abdullah-X455LAB:~/Documents$ mkdir hello
abdullah@abdullah-X455LAB:~/Documents$ ls
abdullah hello lab-report -02.odt
abdullah@abdullah-X455LAB:~/Documents$ rmdir hello
abdullah@abdullah-X455LAB:~/Documents$ ls
abdullah lab-report -02.odt
abdullah@abdullah-X455LAB:~/Documents$
```

11.**touch** command: The touch command is used to create a file. It can be anything, from an empty txt file to an empty zip file. Here I create a new.text file using touch command.

```
abdullah@abdullah-X455LAB: ~/Documents
                                                                               File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
abdullah@abdullah-X455LAB:~$ ls
Desktop
           Downloads
                              Music
                                         Public
                                                     Videos
Documents examples.desktop Pictures Templates
abdullah@abdullah-X455LAB:~$ cd Documents
abdullah@abdullah-X455LAB:~/Documents$ ls
abdullah lab-report -02.odt Screenshot from 2019-09-03 21-38-41.png
abdullah@abdullah-X455LAB:~/Documents$ touch new.text
abdullah@abdullah-X455LAB:~/Documents$ ls
abdullah lab-report -02.odt new.text Screenshot from 2019-09-03 21-38-41.png
abdullah@abdullah-X455LAB:~/Documents$
```

12. **uname** command:uname is used to show the information about the system running. Using the command "**uname -a**" prints most of the information about the system. This prints the kernel release date, version, processor type, etc.

13. **mv** command: the mv command is used to rename a file. Here i rename the **new.text** file into **hello.text** file.

```
abdullah@abdullah-X455LAB: ~/Documents
                                                                           File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
abdullah@abdullah-X455LAB:~$ ls
          Downloads
                                       Public
                                                  Videos
Desktop
                            Music
Documents examples.desktop Pictures Templates
abdullah@abdullah-X455LAB:~$ cd Documents
abdullah@abdullah-X455LAB:~/Documents$ ls
                   Screenshot from 2019-09-03 21-38-41.png
abdullah
lab-report -02.odt Screenshot from 2019-09-03 21-45-33.png
                   Screenshot from 2019-09-03 21-50-36.png
new.text
abdullah@abdullah-X455LAB:~/Documents$ mv new.text hello.text
abdullah@abdullah-X455LAB:~/Documents$ ls
abdullah
                    Screenshot from 2019-09-03 21-38-41.png
                    Screenshot from 2019-09-03 21-45-33.png
hello.text
lab-report -02.odt Screenshot from 2019-09-03 21-50-36.png
abdullah@abdullah-X455LAB:~/Documents$
```

14. **locate** command: The **locate** command is used to locate a file in a Linux system, just like the search command in Windows. we can use this command when we don't know where a file is saved or the actual name of the file.

```
abdullah@abdullah-X455LAB: ~ □ □ ⊗

File Edit View Search Terminal Help

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

abdullah@abdullah-X455LAB:~$ locate hello.txt
/usr/share/doc/syslinux-common/asciidoc/hello.txt
abdullah@abdullah-X455LAB:~$ □
```

15.**df** command:

This command is used to check disk space usage on a linux system. The most common usage is like below, used along with the -h flag.

```
abdullah@abdullah-X455LAB: ~
                                                                          File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
abdullah@abdullah-X455LAB:~$ df -h
               Size Used Avail Use% Mounted on
Filesystem
udev
                                  0% /dev
               1.9G
                        0 1.9G
tmpfs
               385M
                      12M 374M
                                  4% /run
                                 26% /
/dev/sda11
                28G 6.7G
                            20G
                                 2% /dev/shm
               1.9G
                     32M
                           1.9G
tmpfs
tmpfs
               5.0M 4.0K 5.0M
                                 1% /run/lock
tmpfs
               1.9G
                        0 1.9G
                                 0% /sys/fs/cgroup
/dev/sda3
                96M
                      29M
                            68M 30% /boot/efi
tmpfs
               385M
                      16K
                           385M
                                 1% /run/user/121
                     3.1M 382M
                                  1% /run/user/1000
tmpfs
               385M
abdullah@abdullah-X455LAB:~$
```