Lab Report: 02

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i) What is Linux command?

Ans: 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.

ii) 15 commands in Linux operating system:

- **1.ls**
- 2.ls -al
- 3.pwd
- 4.cd
- 5.mkdir
- 6.mv
- 7.rmdir
- 8.touch
- 9.echo
- 10.cat
- **11.cp**
- 12.rm
- 13.df
- 14.du
- **15.** head

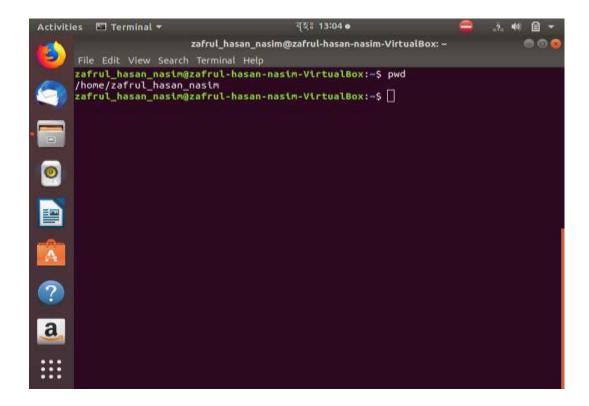
iii) Describe the operation of basic linux command :

1.ls command: Is command is used to list information about files and directories within the file system in the current directroy.

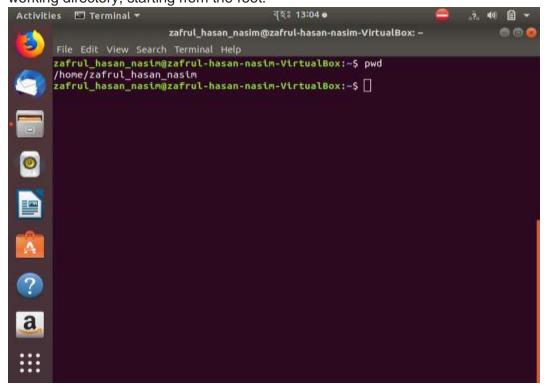
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zafrul_hasan_nasim@zafrul-hasan-nasim-VirtualBox: ~ □ □ ●
File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

zafrul_hasan_nasim@zafrul-hasan-nasim-VirtualBox:~$ ls
Desktop Downloads first.txt new Pictures snap Templates
Documents examples.desktop Music new.txt Public snigdho Videos
zafrul_hasan_nasim@zafrul-hasan-nasim-VirtualBox:~$ ■
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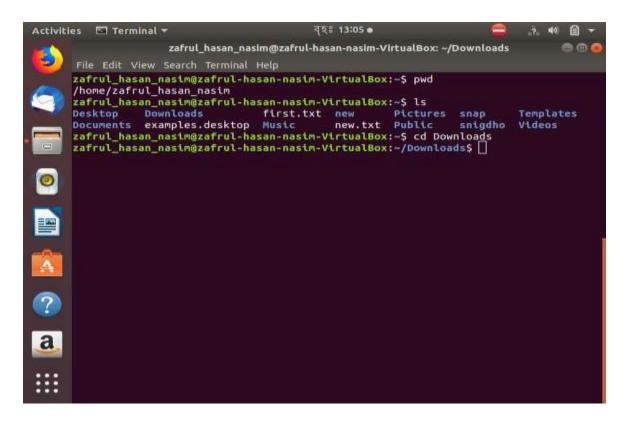
2.ls -al command : This command shows the extended list of the current directory.



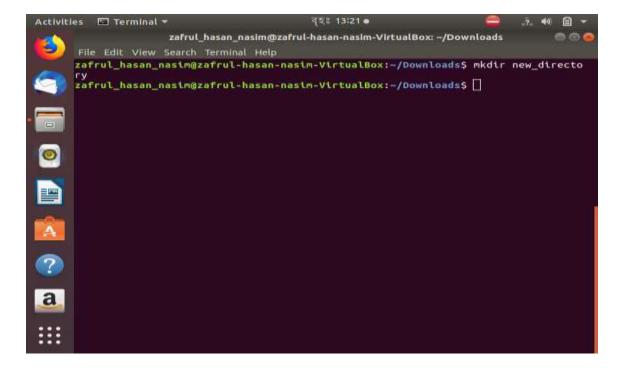
3. pwd command : pwd stands for Print Working Directory. It prints the path of the working directory, starting from the root.

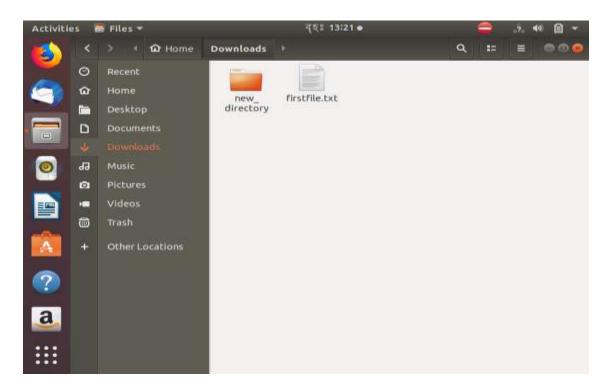


4.cd command: The cd command, also known as chdir (change directory), is a command-line shell command used to change the current working directory.

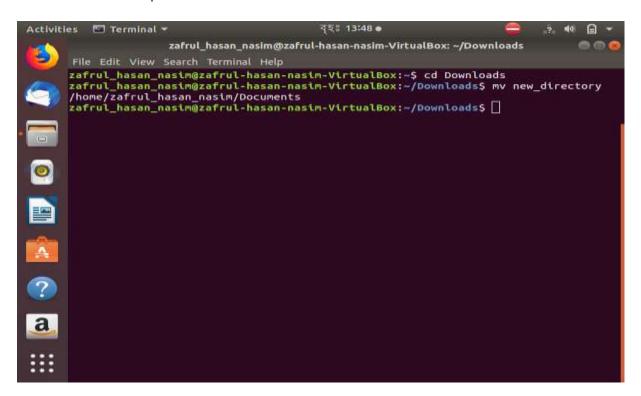


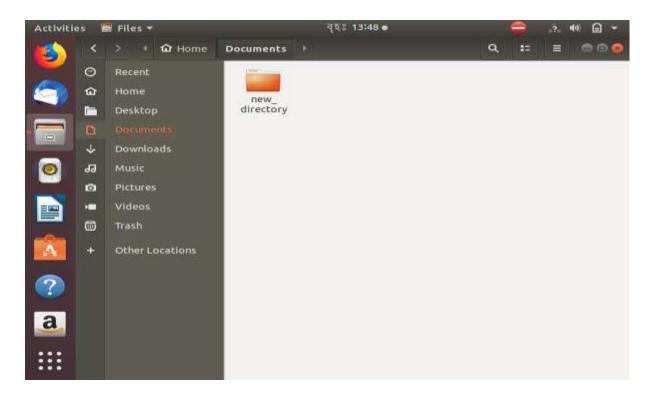
5.mkdir command: The mkdir command in Linux allows users to create or make new directories.



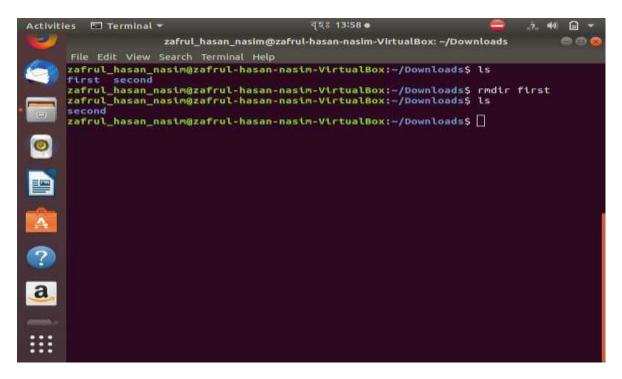


6.mv command: The mv command is a command line utility that moves files or directories from one place to another .

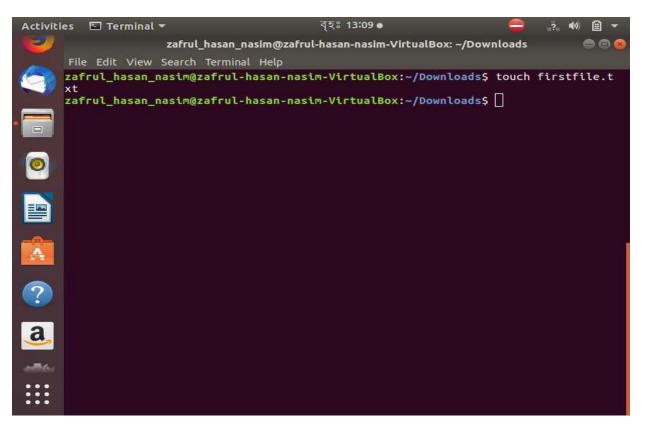


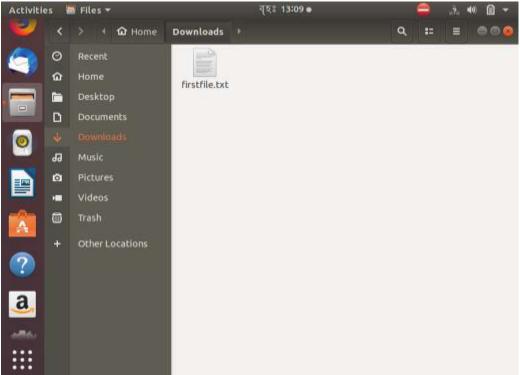


7.rmdir command: rmdir command removes each and every directory specified in the command line only if these directories are empty

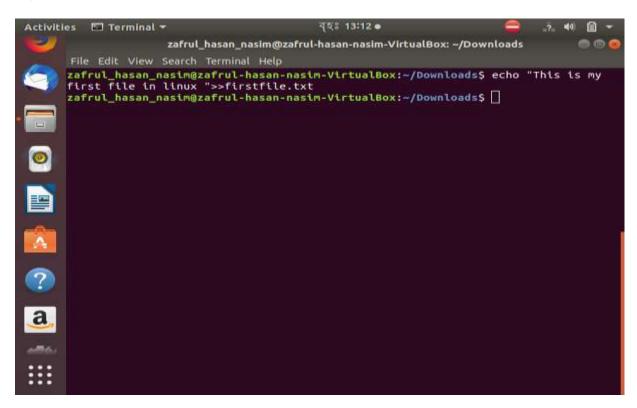


8. touch command : The touch command is a standard command used in UNIX/Linux operating system which is used to create, change and modify timestamps of a file.

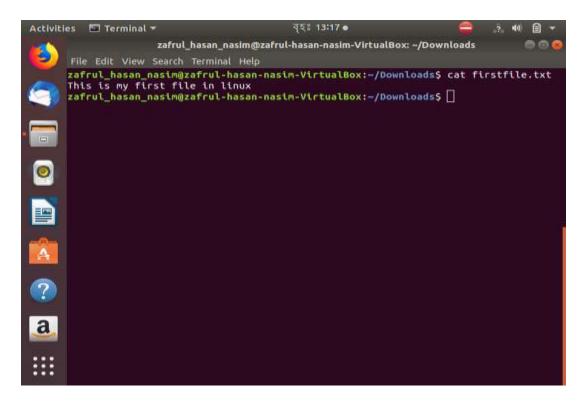




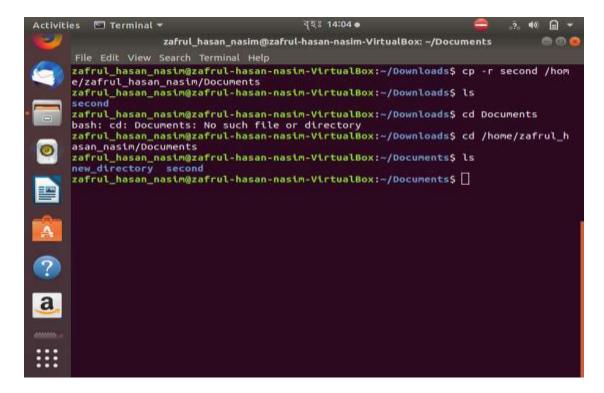
9.echo command : echo is a command that outputs the strings it is being passed as arguments.it also uses write in the files.



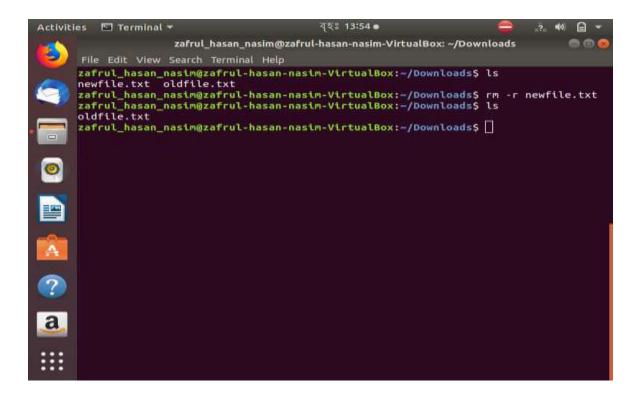
10.cat command: cat is a standard Unix utility that reads files sequentially, writing them to standard output.



11.cp command : The cp command is a command-line utility for copying files and directories.



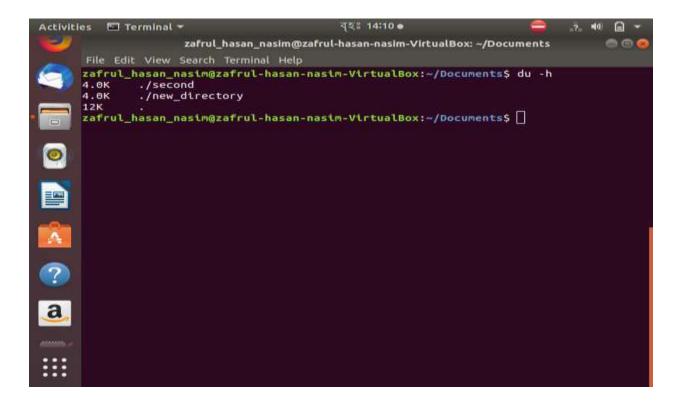
12. rm -r command : rm -r will recursively delete a directory and all its contents Normally **rm** will not delete directories, while rmdir will only delete empty directories.



13. df command: df (abbreviation for disk free) is a standard Unix command used to display the amount of available disk space for file systems on which the invoking user has appropriate read access.

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Activities □ Terminal ▼
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                          zafrul_hasan_nasim@zafrul-hasan-nasim-VirtualBox: ~/Documents
        File Edit View Search Terminal Help
        zafrul_hasan_nasim@zafrul-hasan-nasim-VirtualBox:~/Documents$ df -m
       Filesystem
                          1M-blocks
                                        Used Available Use% Mounted on
                                                             0% /dev
1% /run
       udev
                                1358
                                            0
                                                     1358
       tmpfs
                                 279
                                            2
                                                     278
        /dev/sda1
                               31141
                                        6558
                                                    22979
                                                            23%
                                                             0% /dev/shm
        tmpfs
                                1393
                                            0
                                                     1393
       tmpfs
                                                             1% /run/lock
                                            1
                                                                 /sys/fs/cgroup
        tmpfs
                                1393
                                            0
                                                     1393
                                                             0%
       /dev/loop0
/dev/loop1
/dev/loop3
/dev/loop2
/dev/loop4
                                                        0 100% /snap/gnome-logs/81
                                    1
                                                        0 100% /snap/gnome-system-monitor/100
                                                        0 100% /snap/gnome-characters/399
                                   15
                                           15
                                   45
                                           45
                                                        0 100% /snap/gtk-common-themes/1440
                                                        0 100% /snap/core18/1668
                                   55
                                           55
        /dev/loop10
/dev/loop7
                                                        0 100% /snap/gnome-logs/61
0 100% /snap/gnome-system-monitor/127
                                    1
                                            1
                                    4
                                            4
       /dev/loop6
/dev/loop5
/dev/loop9
                                   15
                                           15
                                                        0 100% /snap/gnome-characters/296
                                                        0 100% /snap/gnome-3-28-1804/67
0 100% /snap/gtk-common-themes/1313
                                  150
                                         150
                                   43
                                          43
       /dev/loop15
/dev/loop13
/dev/loop8
                                            5
                                                        0 100% /snap/gnome-calculator/544
                                                        0 100% /snap/core18/1066
0 100% /snap/gnome-3-28-1804/116
                                   55
                                           55
                                  161
                                         161
       /dev/loop12
/dev/loop14
/dev/loop11
                                                        0 100% /snap/core/8689
                                   92
                                           92
                                   5
                                            5
                                                        0
                                                           100% /snap/gnome-calculator/406
                                                        0 100% /snap/core/7270
                                   89
                                           89
        tmpfs
                                  279
                                                      279
                                                             1% /run/user/1000
       zafrul_hasan_nasim@zafrul-hasan-nasim-VirtualBox:~/Documents$
```

14. du command : The du command can be used to track the files and directories which are consuming excessive amount of space on hard disk drive



15. head command : The head command is a command-line utility for outputting the first part of files given to it via standard input.

