Experiment No: 02

Experiment Name: Basic command of linux

Objective:

Our aim is to learn some basic command of linux. In this lab we can learn how to use command on terminal so that some things are done by command such as creating file, reading file, delete a file etc.

1. whoami: This command use for find out the current user id.

```
miran@Miran-Inspiron-5570: ~

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miran@Miran-Inspiron-5570:~$ whoami

miran

miran@Miran-Inspiron-5570:~$
```

2. **hostname**: This command shows the host name of the system.

```
miran@Miran-Inspiron-5570: ~

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miran@Miran-Inspiron-5570:~$ hostname
Miran-Inspiron-5570
miran@Miran-Inspiron-5570:~$
```

3. **<u>pwd</u>**: This command shows the current directory .

4. **Is:** The Is command shows contents of a directory.

```
miran@Miran-Inspiron-5570: ~

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miran@Miran-Inspiron-5570:~$ ls

Desktop examples.desktop LicenceServer Public Videos

Documents Intellij-16 Music snap

Downloads lab Pictures Templates

miran@Miran-Inspiron-5570:~$
```

5. <u>Is –a</u>: This command shows contents of a directory and also shows the hidden content.

```
miran@Miran-Inspiron-5570: ~
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miran@Miran-Inspiron-5570:~$ ls -a
                                                  Public
                                LicenceServer
              Downloads
                                .local
                                                  snap
                                                  .sudo_as_admin_successful
.bash_history examples.desktop .mozilla
              .gnome
                                                  Templates
.bash_logout
                                Music
                                .pam_environment .thunderbird
.bashrc
              .gnupg
              .ICEauthority
                                                  Videos
.cache
                                Pictures
              Intellij-16
.config
                                .pki
Desktop
              lab
                                .profile
miran@Miran-Inspiron-5570:~$
```

6. <u>Is –al</u>: Is -al will list the files and directories with detailed information like the permissions, size, owner, etc.

```
miran@Miran-Inspiron-5570: ~
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ls-al: command not found
miran@Miran-Inspiron-5570:~$ ls -al
total 124
drwxr-xr-x 22 miran miran 4096 Sep 4 2020
                                  2 2020 ...
drwxr-xr-x 3 root root 4096 Mar
-rw------ 1 miran miran 601 Sep 3 20:37 .bash history
                                 2 2020 .bash logout
rw-r--r-- 1 miran miran 220 Mar
-rw-r--r-- 1 miran miran 3771 Mar
                                  2 2020 .bashrc
drwx----- 22 miran miran 4096 Mar 22 21:27 .cache
drwx----- 24 miran miran 4096 Sep
                                  4 2020 .config
drwxr-xr-x 3 miran miran 4096 Sep
                                 3 20:04 Desktop
drwxrwxrwx 3 miran miran 4096 Mar 22 21:30 🛭
drwxr-xr-x 2 miran miran 4096 Sep 3 20:24 Downloads
-rw-r--r-- 1 miran miran 8980 Mar
                                 2 2020 examples.desktop
                                  2 2020 .gnome
           3 miran miran 4096 Mar
          3 miran miran 4096 Mar
                                  2 2020 .gnupg
-rw------ 1 miran miran 2960 Sep 4 2020 .ICEauthority
drwxr-xr-x 8 miran miran 4096 Aug 13 2018 Intellij-16
drwxrwxr-x 2 miran miran 4096 Mar
                                 2 2020 lab
drwxr-xr-x 2 miran miran 4096 Jul 23 2019 LicenceServer
                                 2 2020 .local
drwx-----
           3 miran miran 4096 Mar
drwx-----
           5 miran miran 4096 Mar
                                 2 2020 .mozilla
                                 2 2020 Music
drwxr-xr-x 2 miran miran 4096 Mar
-rw-r--r-- 1 miran miran 310 Mar
                                 2 2020 .pam environment
drwxr-xr-x 2 miran miran 4096 Sep
                                 3 20:36 Pictures
                                  2 2020 .pki
           3 miran miran 4096 Mar
- FW - F - - F - -
          1 miran miran 807 Mar
                                  2 2020 .profile
                                 2 2020 Public
drwxr-xr-x  2 miran miran 4096 Mar
drwxr-xr-x 4 miran miran 4096 Mar 17 13:42 snap
-rw-r--r-- 1 miran miran
                            0 Mar 17 13:21 .sudo_as_admin_successful
drwxr-xr-x 2 miran miran 4096 Mar
                                  2 2020 Templates
           6 miran miran 4096 Mar
                                  2 2020 .thunderbird
drwxr-xr-x 2 miran miran 4096 Mar 2 2020 Videos
miran@Miran-Inspiron-5570:~$
```

7. **<u>cd</u>**: This command use to change the directoy.

8. **cd** .. : This command use to one move directory up.

```
miran@Miran-Inspiron-5570: ~

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miran@Miran-Inspiron-5570:~$ cd Pictures
miran@Miran-Inspiron-5570:~/Pictures$ cd ..
miran@Miran-Inspiron-5570:~$

miran@Miran-Inspiron-5570:~$
```

9. <u>mkdir</u>: This command use to make a new directory, if you type mkdir oslab it will create a directory called os-lab.

```
miran@Miran-Inspiron-5570: ~

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miran@Miran-Inspiron-5570: ~$ mkdir os_lab

miran@Miran-Inspiron-5570: ~$ ls

Desktop examples.desktop LicenceServer Pictures Templates

Documents Intellij-16 Music Public Videos

Downloads lab os_lab snap

miran@Miran-Inspiron-5570: ~$
```

10. <u>rmdir</u>: This command use to delete a directory but it can only delete when the directory is empty.

```
miran@Miran-Inspiron-5570: ~

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miran@Miran-Inspiron-5570: ~$ rmdir os_lab

miran@Miran-Inspiron-5570: ~$ ls

Desktop examples.desktop LicenceServer Public Videos

Documents Intellij-16 Music snap

Downloads lab Pictures Templates

miran@Miran-Inspiron-5570: ~$
```

11.<u>rm -r</u>: This command is also use for delete a directory and it can also delete with its contents.

```
miran@Miran-Inspiron-5570: ~/Documents

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miran@Miran-Inspiron-5570: ~/Documents$ ls

hello teenceServer miran

miran@Miran-Inspiron-5570: ~/Documents$ rm -r hello

miran@Miran-Inspiron-5570: ~/Documents$ ls

ticenceServer miran

miran@Miran-Inspiron-5570: ~/Documents$
```

12. **touch**: To create an any type of file by using command line this command is used.

```
miran@Miran-Inspiron-5570: ~/Documents

File Edit View Search Terminal Help

miran@Miran-Inspiron-5570:~/Documents$ ls

LicenceServer miran

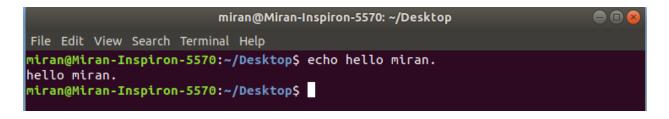
miran@Miran-Inspiron-5570:~/Documents$ touch miran.txt

miran@Miran-Inspiron-5570:~/Documents$ ls

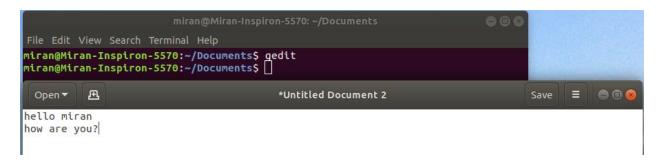
LicenceServer miran miran.txt

miran@Miran-Inspiron-5570:~/Documents$
```

13.<u>echo</u>: This command shows on terminal which is written after echo command.



14. **gedit**: This command is working like text editor.



15.<u>cat</u>: This command is use to read data form a file and shows the output of its content in terminal.

```
miran@Miran-Inspiron-5570: ~/Documents

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miran@Miran-Inspiron-5570: ~/Documents$ cat miran.txt

Hello miran

welcome to the Operating System lab.

miran@Miran-Inspiron-5570: ~/Documents$
```

16. <u>sudo</u>: This command generally use in Linux as a prefix of some command that are only superuser are allowed to run.

```
miran@Miran-Inspiron-5570: ~
                                                                           File Edit View Search Terminal Help
miran@Miran-Inspiron-5570:~$ sudo apt-get update
[sudo] password for miran:
Get:1 http://dl.google.com/linux/chrome/deb stable InRelease [1,811 B]
Hit:2 http://bd.archive.ubuntu.com/ubuntu bionic InRelease
Get:3 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:4 http://bd.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Hit:5 http://ppa.launchpad.net/fixnix/netspeed/ubuntu bionic InRelease
Get:6 http://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,113 B]
Get:7 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [832
kB]
Get:8 http://bd.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:9 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [1,
054 kBl
Get:10 http://security.ubuntu.com/ubuntu bionic-security/main i386 Packages [528
kB]
27% [9 Packages 155 kB/1,054 kB 15%] [10 Packages 160 kB/528 kB 30%]
```