NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No: 3

<u>Aim</u>

familiarization of Linux commands

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Procedure

1. pwd Command

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

```
student@S32:~$ pwd
/home/student
```

2. mkdir Command

The mkdir command is used to create a new directory under any directory.

```
student@S32:~$ mkdir rovy
```

3. ls Command

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

```
student@S32:~$ ls
bankdet diagmatrix Downloads Pictures snap
bankdet.c diagmatrix.c examples.desktop Public Templates
bankdet.o diagmatrix.o jovv PycharmProjects Videos
Desktop Documents Music rovy
```

4. ls -a

The (ls -a) command will enlist the whole list of the current directory including the hidden files.

```
student@S32:~$ ls -a
                                                                   .idlerc .mozilla
                                                                                                                          .thunderbird
          bankdet.o
                         .cache
                                    diagmatrix.c Downloads
                                                                                               .pki
                                                                                                               гоуу
                                                                                              .profile
          .bash_history .config
                                    diagmatrix.o examples.desktop .java
                                                                                                                         Videos
                                                                            Music
                                                                                                               snap
          .bash logout Desktop
                                                                   jovv
                                                                            .oracle_jre_usage Public
bankdet
                                    Documents
                                                  .gnupg
                                                                                                               .ssh
bankdet.c .bashrc
                         diagmatrix .dosbox
                                                  .ICEauthority
                                                                   .local Pictures
                                                                                              PycharmProjects Templates
```

5.ls -t Display the directories in last modified order

```
student@S32:~$ ls -t
rovy Downloads snap PycharmProjects diagmatrix diagmatrix.c bankdet.o Music Public examples.desktop
Desktop Pictures Documents jovv diagmatrix.o bankdet bankdet.c Videos Templates
```

6.ls -R option will list very long listing directory trees. See an example of the output of the command.

```
student@S32:-$ ls -R

;
bankdet bankdet.o diagmatrix diagmatrix.o Downloads jovv Pictures PycharmProjects snap Videos Downket.o Dokuments examples.desktop Music Public rovy Templates

//Desktop:
'MCA REGULAR':
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```

7. Is -al this command display the files and directory with permissions

```
      student@S32:~$ ls -al

      total 184

      drwxr-xr-x 26
      student
      student
      4096
      Mar 24
      14:29
      .

      drwxr-xr-x 7
      root
      root
      4096
      Jan 13
      14:35
      .

      -rwxrwxr-x 1
      student
      8464
      Oct 5
      10:45
      bankdet

      -rw-rw-r-- 1
      student
      student
      3624
      Oct 5
      10:45
      bankdet.c

      -rw-rw-r-- 1
      student
      student
      427
      Dec 20
      12:03
      .bash_history

      -rw-r--- 1
      student
      student
      220
      Oct 4
      16:23
      .bash_clogout

      -rw-r--- 1
      student
      student
      3771
      Oct 4
      16:23
      .bash_clogout

      -rw-r--- 1
      student
      student
      4096
      Mar 24
      14:07
      .cache

      drwx----- 18
      student
      student
      4096
      Mar 24
      14:07
      .config

      drwx----- 20
      student
      student
      4096
      Mar 24
      14:07
      .config

      drwxr-wr-x 1
      student
      student
      4096
      Mar 24
      14:06
      Desktop
    </tr
```

8. cd Command

The cd command is used to change the current directory.

```
student@S32:~$ cd rovy
```

9.cd .. **Command** represent the parent directory or the directory immediately above the current one.



10. cd - Command

This command change our current working directory has been changed to its previous directory

```
student@S32:~$ cd -
/home/student/rovy
```

11. 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.

a. \$ cat file_name.txt

Which display the content in the file.

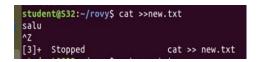
```
student@S32:~/rovy$ cat new.txt
hello world
how are you
```

b. \$ cat > file_name.txt

Allow to create a new file and add new elements

```
student@S32:~/rovy$ cat > new.txt
hello world
how are you
^Z
[1]+ Stopped cat > new.txt
```

c. \$ cat >> file_name.txt
 Allow to append new contents



d. \$ cat file_name.txt > file2_name.txt

Which copy the contents of first file and paste on the second file

```
student@S32:~/rovy$ cat new.txt > b.txt
student@S32:~/rovy$ cat b.txt
hello world
how are you
tam second
salu
```