

Aim :familiarization of Linux commands

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
.      bankdet.o      .cache      diagmatrix.c  Downloads    .idlerc    .mozilla    .pki      rovy      .thunderbird
..     .bash_history  .config     diagmatrix.o  examples.desktop .java      Music       .profile  snap      Videos
bankdet .bash_logout  Desktop     Documents     .gnupg       jovv       .oracle_jre_usage Public    .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
rovvy  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
bankdet.c    Desktop      diagmatrix.c Documents    examples.desktop Music  Public    rovy              Templates

./Desktop:
'MCA REGULAR'

'./Desktop/MCA REGULAR':
12-11-21
19-11-21
demo.py
'program10(21-11-21).py'
'program1(21-11-21).py'
'program2(17-11-21).py'
'program3(17-11-21).py'
'program4(17-11-21).py'
'program5(20-11-21).py'
'program6(21-11-21).py'
'program7(21-11-21).py'
'program8(20-11-21).py'
'program9(21-11-21).py'
pythonProject
pythonProject1
pythonProject2
pythonProject3
pythonProjectnew
ss
test.txt
'Text Type:'$'\t'str'$\n'Numeric Types:'$'\t'int, float, complex'$\n'Sequence Types:'$'\t'list, tuple, range'$\n'
dic.txt'

'./Desktop/MCA REGULAR/12-11-21':
exp2  new.py  numpy.py  pgm10.py  pgm1.py  pgm2.py  pgm3.py  pgm4.py  pgm5.py  pgm7.py  pgm8.py  pgm9.py
```

7. ls -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 student 8464 Oct  5 10:45 bankdet
-rw-rw-r--  1 student student  820 Oct  5 10:41 bankdet.c
-rw-rw-r--  1 student student 3624 Oct  5 10:45 bankdet.o
-rw-----  1 student student  427 Dec 20 12:03 .bash_history
-rw-r--r--  1 student student  220 Oct  4 16:23 .bash_logout
-rw-r--r--  1 student student 3771 Oct  4 16:23 .bashrc
drwx----- 18 student student 4096 Mar 24 14:07 .cache
drwx----- 20 student student 4096 Mar 24 14:07 .config
drwxr-xr-x  3 student student 4096 Mar 24 14:06 Desktop
-rwxrwxr-x  1 student student 8488 Oct  5 11:12 diagmatrix
-rw-rw-r--  1 student student  764 Oct  5 10:52 diagmatrix.c
-rw-rw-r--  1 student student 3160 Oct  5 11:12 diagmatrix.o
drwxr-xr-x  3 student student 4096 Nov 22 08:52 Documents
drwx-----  2 student student 4096 Dec 20 11:05 .dosbox
drwxr-xr-x  2 student student 4096 Feb 21 10:44 Downloads
-rw-r--r--  1 student student 8980 Oct  4 16:23 examples.desktop
drwx-----  3 student student 4096 Nov  1 11:17 .gnupg
-rw-----  1 student student 10404 Mar 24 2022 .ICEauthority
drwxrwxr-x  2 student student 4096 Nov  1 11:25 .idlerc
drwxrwxr-x  4 student student 4096 Nov  1 11:18 .java
drwxr-xr-x  2 student student 4096 Oct 29 15:54 jovv
drwx-----  3 student student 4096 Oct  5 09:31 .local
drwx-----  5 student student 4096 Oct 29 15:14 .mozilla
drwxr-xr-x  2 student student 4096 Oct  5 09:31 Music
```


8. cd Command

The cd command is used to change the current directory.

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

9.cd .. Command

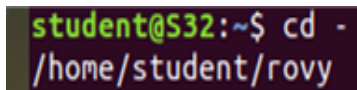
represent the parent directory or the directory immediately above the current one.



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

10. cd – Command

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



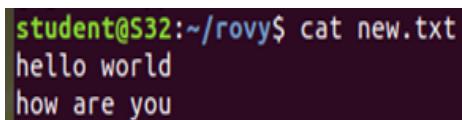
```
student@S32:~$ cd -  
/home/student/rovy
```

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`

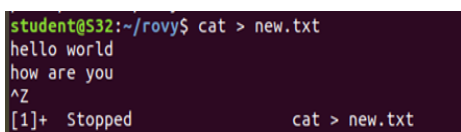
Which display the content in the file.



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

- b. `$ cat > file_name.txt`

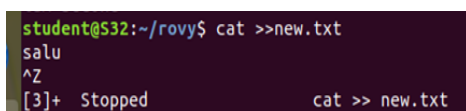
Allow to create a new file and add new elements



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

- c. `$ cat >> file_name.txt`

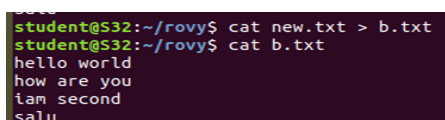
Allow to append new contents



```
student@S32:~/rovy$ cat >> new.txt  
salu  
^Z  
[3]+ Stopped cat >> new.txt
```

- 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  
iam second  
salu
```