

NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No: 3

Aim

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
.      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@532:~$ ls -t
rovy    Downloads  snap      PycharmProjects  diagraphix  diagraphix.c  bankdet.o  Music  Public  examples.desktop
Desktop Pictures  Documents  jovv            diagraphix.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    diagnatrix  diagnatrix.o Downloads    jovv         Pictures    PycharmProjects snap          Videos
bankdet.c    Desktop      diagnatrix.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 .idlcrc
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
```