Name: Shefany Shanavas

Roll No: 37

Batch: RMCA B

Date: 24-3-2022

NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No.: 3

<u>Aim</u>

Familiarization of the Linux commands.

Procedure

1. pwd

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

Syntax :- \$ pwd

Output:-

```
student@S37:~$ pwd
/home/student
```

2. mkdir

This command is used to create a new directory under any directory.

Syntax:- \$ mkdir < directory name>

Output:-



3. ls

This command is used to display a list of content of directory.

Syntax :- \$ 1s

Output:-



5. ls -l

This command is used to shows file or directory, size, modified date and time, file or folder name and owner of the file, and its permission.

Syntax:- \$ ls -l

```
student@S37:~$ ls -l
total 940
-rw-rw-r-- 1 student student 2809 Feb 13 2020 '13-2 sd lab.txt'
-rw-r--- 1 student student 86634 Feb 17 2020 '17-2 sdlab'
-rw-rw-r-- 1 student student 4460 Feb 3 2020 '3-2 sdlab.txt'
drwrx-r--- 2 student student 4460 Feb 3 2020 '3-2 sdlab.txt'
```

6. ls -a

This command is used to list all files including hidden files.

Syntax :- \$ls -a

Output:-

	daniya	for4.sh	listmul.py	pol	server1.class
	ddd.txt	for5.sh	liststring.py	pom	server1.java
'13-2 sd lab.txt'	Desktop	for.sh	listsum.py	prime.py	Server.class
'17-2 sdlab'	dictcheck.py	f.txt	.local	printAsterisks.py	Server.java
'3-2 sdlab.txt'	dictcount.py	F.txt~	' moderateDays.py'	.profile	servers.class
aamii	dictionaryconc.py	' getContinue.py'	.mozilla	Public	servers.java
aamiii	Documents	.gimp-2.8	mozilla.pdf	.PyCharmCE2019.1	serverss.class

7. ls -r

It is used to print the list in reverse order.

Syntax :- \$ ls -r

Output:-

student@S37:~\$	ls -r				
Zero.py	scripts	pol	listlarge.py	fibona.py	daniya
x.txt	r.txt	poi	listfrequency.py	fibonacci.sh	daily.py
Videos	reverse.sh	pob	listdiff.py	fact.sh	D3
unique.py	re.txt	pn.sh	listdiff.jy	factor.py	D2
udps.java	qww.txt	pn2.sh	listconcate.py	f2.txt	D1
udps.class	qw.txt	Pictures	listcommon.py	f1.txt	Credits.py
udp.java	qwq.txt	o.txt	leapyear.sh	examples.desktop	commstring.py

8. ls -t

This command is used to display files in the last modified order.

Syntax :- \$ 1s -t

Output:-

daily.py student@S37:~\$ ls -	tor3.sh	listmin.py		poi	'sdlab 30-1	,
aamiii	t	alphabet.sh	qww.txt	snap	daily.py	dictcheck.py
aamii Desktop		arg.sh leapvear.sh	qwq.txt newfile.txt	eg3.py eg2.py	' moderateDays.py' ' getContinue.pv'	<pre>'<invalid path="">' '<invalid path="">.lavout'</invalid></invalid></pre>
java_error_in_pych	arm_2876.log	'17-2 sdlab'	qqg.txt	eg.py	printAsterisks.py	duplistoflist.py ´
PycharmProjects Downloads		<pre>if.sh '13-2 sd lab.txt'</pre>	qqf.txt qqe.txt	eg1.py clientsss.class	Credits.py ordered3.py	listcommon.py listconcate.py

9. cd:-

This command is used to change the current directory.

Syntax :- \$ cd <directory name>

Output:-



10. cd ..

This command is used to move to the parent directory of current directory, or the directory one level up from the current directory.

Syntax :- \$ cd ..

Output:-



11. cd –

This command is used to switch back to previous directory we were working earlier.

Syntax :- \$ cd -



12. cat > filename

This command is used to create a file and add contents to that file.

Syntax:- \$ cat > filename.txt

Output:-

13. cat>>filename

This command is used to add contents to an existing file.

Syntax :- \$ cat >> filename.txt

```
student@S37:~$ cat >> aamiii.txt
amal jyothi
^Z
[2]+ Stopped cat >> aamiii.txt
student@S37:~$ cat aamiii.txt
network and administration
amal jyothi
student@S37:~$ \
```

NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No.: 4

Aim

Familiarization of the linux commands.

Procedure

1. -n

This command is used to displays line numbers in contents.

Syntax :- \$ cat -n filename

Output:-

```
user@LAPTOP-0Q30FFON MINGW64 ~ (master)
$ cat > text.txt
hello world
welcome to coding
java
python
android
seguel
ruby
[1]+ Stopped
                                cat > text.txt
user@LAPTOP-0Q30FFON MINGW64 ~ (master)
$ cat -n text.txt
     1 hello world
     2 welcome to coding
        java
        python
        android
        seguel
        ruby
```

2. -b

This command is used to removes the empty lines.

Syntax :-\$ cat -b filename

Name: Shefany Shanavas

Roll No: 37

Batch: S2MCA -B

Date: 31/03/2022

Output:-

3.Touch

This command is used to create an empty file.

Syntax :-\$ touch filename

Output :-

```
user@LAPTOP-0Q30FFON MINGW64 ~ (master)
$ touch text.txt
```

4. \$echo //contents// >>text.txt:

it is used to add contents to an empty file.

Output:-

```
user@LAPTOP-0Q30FFON MINGW64 ~ (master)
$ echo hello world >> text.txt
```

5. head

This head command is used to display the first ten line of contents and head -4 which displays the first four lines of contents.

Syntax :-\$ head filename

\$ head -4 filename

Output:-

```
user@LAPTOP-0Q30FFON MINGW64 ~ (master)

$ head text.txt
hello world
welcome to coding
c++
java

python
android
seguel
ruby
hello world

user@LAPTOP-0Q30FFON MINGW64 ~ (master)
$ head -4 text.txt
hello world
welcome to coding
c++
java
```

6. Tail

This tail command is used to displays the last ten lines of contents and tail -4 which displays the last 4 lines of contents.

Syntax :-\$ tail filename.txt

\$ tail -4 filename.txt

Output:-

```
user@LAPTOP-0Q30FFON MINGW64 ~ (master)
$ tail text.txt
hello world
welcome to coding
C++
java

python
android
seguel
ruby
hello world
```

```
user@LAPTOP-0Q30FFON MINGW64 ~ (master)
$ tail -4 text.txt
android
seguel
ruby
hello world
```

7. Cut f2, Cut f1

This cut f2 command is used to display the second column contents and f1 which displays the first column contents.

Syntax:- \$cut -d- -f2 filename.txt \$cut -d- -f1 filename.txt

```
$ cat > b1.txt
English 78
Maths 80
Science 79
Hindi 76
[3]+ Stopped cat > b1.txt
```

```
user@LAPTOP-0Q30FFON MINGW64 ~ (master)
$ cut -d' ' -f1 b1.txt
English
Maths
Science

user@LAPTOP-0Q30FFON MINGW64 ~ (master)
$ cut -d' ' -f2 b1.txt
78
80
79
```

NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No.: 5

Aim

Familiarization of the Linux commands.

Procedure

1.cut ' '

This command is used cut the spaces.

Syntax:- \$cut -d ' '-f2 filename.txt

Output:-

```
student@T70:~$ cat > mark1
English 67
maths 69
science 76
^Z
[1]+ Stopped cat > mark1
```

```
student@T70:~$ cut -d ' ' -f2 mark1
67
69
76
```

2. cut -b 2

This command is used to displays the second letters.

Syntax:- \$ cut -b 2 filename.txt

Output:-

```
student@T70:~$ cut -b 2 mark1
n
a
c
```

3.cut -complement -c 1

This command is used to displays the contents except the first letter.

Syntax:- \$ cut -complement -c 1 filename.txt

Output :-

Name: Shefany Shanavas

Roll No:37

Batch: MCA-B

Date: 21-03-2022

```
student@T70:~$ cut --complement -c 1 mark1
nglish 67
aths 69
cience 76
```

4. Paste

This command is used to paste one file contents to another.

Syntax :- \$ paste filename1.txt filename2.txt

Output:-

```
student@T70:~$ cat > marvel1
 captain amerca
 iron man
 black widow
 hulk
 spider man
 goot
        Stopped
                                       cat > marvel1
 student@T70:~$ cat > marvel2
 reubla
 gamora
 panda
 dr strange
        Stopped
                                      cat > marvel2
student@T70:~$ paste marvel1 marvel2
captain amerca
                        reubla
iron man
                         gamora
black widow
                         panda
hulk
           dr strange
spider man
 goot
student@T70:~$ cat marvel3
student@T70:~$ paste marvel1 marvel2 >marvel3
student@T70:~$ paste marvel1 marvel2 > marvel3
student@T70:~$ cat marvel3
captain amerca reubla
iron man
                   gamora
black widow
hulk dr strange
spider man
hulk
```

5. Paste -d '-' file1 file2, Paste -d '%' file1 file2

This command is used to displays '-' and '%' in between the contents.

```
Syntax :- $ paste -d '-' file1.txt file2.txt
$ paste -d '%' file1.txt file2.txt
```

```
student@T70:~$ paste -d '-' marvel1 marvel2
captain amerca-reubla
iron man-gamora
black widow-panda
hulk-dr strange
spider man -
goot-
student@T70:~$ paste -d '%|' marvel1 marvel2 marvel1
captain amerca%reubla|captain amerca
iron man%gamora|iron man
black widow%panda|black widow
hulk%dr strange|hulk
spider man %|spider man
goot%|goot
```

6. Paste -s file1 file2

This command is used to displays the contents as single line.

Syntax :- \$ paste -s file1.txt file2.txt Output :-

```
student@T70:~$ paste -s marvel1 marvel 2 captain amerca iron man black widow hulk spider man goot
```

7. More, more -3 filename,+3 filename

This more command displays the output one screenful at a time, more -3 command which displays the first 3 lines of contents and +3 displays the lines excepts the first three lines.

Syntax:- \$ more filename.txt

\$ more -3 filename.txt

\$ more +3 filename.txt

\$ more filename.txt

\$ more – s filename.txt

Output:-

Student@170:-\$ cat > demo
India, officially the Republic of India (Hindi: Bhārat Gaṇarājya),[24] is a country in South Asia. It is the seventh-largest country by area, the second-most populous country, and the most populous democracy in the world. Bounded by the Indian Ocean on the south, the Arabian Sea on the southwest, and the Bay of Bengal on the southeast, it shares land borders with Pakistan to the we st;[f] China, Nepal, and Bhutan to the north; and Bangladesh and Myanmar to the east. In the Indian Ocean, India is in the vicin ity of Sri Lanka and the Maldives; its Andaman and Nicobar Islands share a martitme border with Thailand, Myanmar and Indonesia. India, officially the Republic of India (Hindi: Bhārat Gaṇarājya),[24] is a country in South Asia. It is the seventh-largest country by area, the second-most populous country, and the most populous democracy in the world. Bounded by the Indian Ocean on the south, the Arabian Sea on the southwest, and the Bay of Bengal on the southeast, it shares land borders with Pakistan to the we st;[f] China, Nepal, and Bhutan to the north; and Bangladesh and Myanmar to the east. In the Indian Ocean, India is in the vicin ity of Sri Lanka and the Maldives; its Andaman and Nicobar Islands share a martitme border with Thailand, Myanmar and Indonesia. India, officially the Republic of India (Hindi: Bhārat Gaṇarājya),[24] is a country in South Asia. It is the seventh-largest country by area, the second-most populous country, and the most populous democracy in the world. Bounded by the Indian Ocean on the south, the Arabian Sea on the southwest, and the Bay of Bengal on the southeast, it shares land borders with Pakistan to the we st;[f] China, Nepal, and Bhutan to the north; and Bangladesh and Myanmar to the east. In the Indian Ocean, India is in the vicin ity of Sri Lanka and the Maldives; its Andaman and Nicobar Islands share a maritime border with Thailand, Myanmar and Indonesia. India, officially the Republic of India (Hindi: Bhārat Gaṇarājya),[24] is a country in Sout

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1. In more command:

<space>-Press space bar to advance to next page.

<enter>- Press enter to advance to the next line.