

**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
c++
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
 3 c++
 4 java
 5
 6 python
 7 android
 8 seguel
 9 ruby
```

**2. -b**

This command is used to removes the empty lines.

Syntax :-       \$ cat -b filename

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Output :-

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

 5 python
 6 android
 7 sequel
 8 ruby
```

### 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
sequel
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
sequel
ruby
hello world

user@LAPTOP-0Q30FFON MINGW64 ~ (master)
$ tail -4 text.txt
android
sequel
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

Output :-

```
$ 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
```

## 8. 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
```

## 9. 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
```

## 10. cut --complement -c 1

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

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

Output :-

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

## 11. 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
^Z
[2]+  Stopped                  cat > marvel1
```

```
student@T70:~$ cat > marvel2
reubla
gamora
panda
dr strange
^Z
[3]+  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   panda
hulk          dr strange
spider man
goot
```

## 12. 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`

Output :-

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

### 13. 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 america iron man black widow hulk spider man goot
```

### 14. 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@T70:~$ cat > demo
India, officially the Republic of India (Hindi: Bhārat Gaṇarājya),[24] is a country in South Asia. It is the seventh-largest cou
ntry 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.
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ity of Sri Lanka and the Maldives; its Andaman and Nicobar Islands share a maritime border with Thailand, Myanmar and Indonesia.
^Z
[f4]+ Stopped cat > demo
student@T70:~$ more demo
India, officially the Republic of India (Hindi: Bhārat Gaṇarājya),[24] is a country in South Asia. It is the seventh-largest cou
ntry by area, the second-most populous country, and the most populous democracy in the world. Bounded by the Indian Ocean on the
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```



```
student@T70:~$ more -3 demo
India, officially the Republic of India (Hindi: Bhārat Gaṇarājya),[24] is a country in South Asia. It is the seventh-largest cou
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ty of Sri Lanka and the Maldives; its Andaman and Nicobar Islands share a maritime border with Thailand, Myanmar and Indonesia.
--More--(86%)
[5]+ Stopped
student@T70:~$ more +3 demo
India, officially the Republic of India (Hindi: Bhārat Gaṇarājya),[24] is a country in South Asia. It is the seventh-largest cou
ntry 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 vicini
ty of Sri Lanka and the Maldives; its Andaman and Nicobar Islands share a maritime border with Thailand, Myanmar and Indonesia.
student@T70:~$ more -s demo
India, officially the Republic of India (Hindi: Bhārat Gaṇarājya),[24] is a country in South Asia. It is the seventh-largest cou
ntry by area, the second-most populous country, and the most populous democracy in the world. Bounded by the Indian Ocean on the
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```

## 15. In more command:

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

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