

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 :-

```
merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ cat > text.txt
hello world
welcome
c
c++
java

python
java
ruby
android

[1]+  Stopped                  cat > text.txt
merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ cat -n text.txt
 1 hello world
 2 welcome
 3 c
 4 c++
 5 java
 6
 7 python
 8 java
 9 ruby
10 android
```

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Batch: B

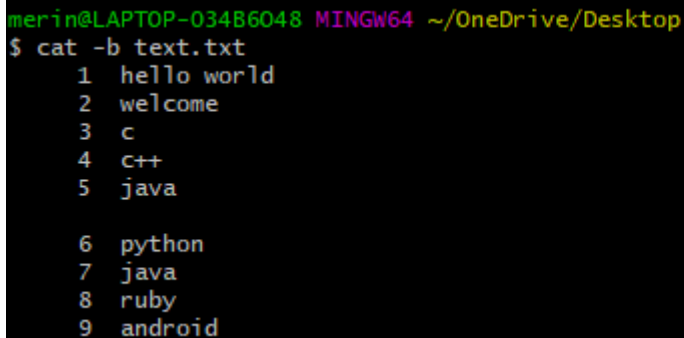
Date: 31/03/2022

2. -b

This command is used to removes the empty lines.

Syntax :- \$ cat -b filename

Output :-



```
merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ cat -b text.txt
 1 hello world
 2 welcome
 3 c
 4 c++
 5 java

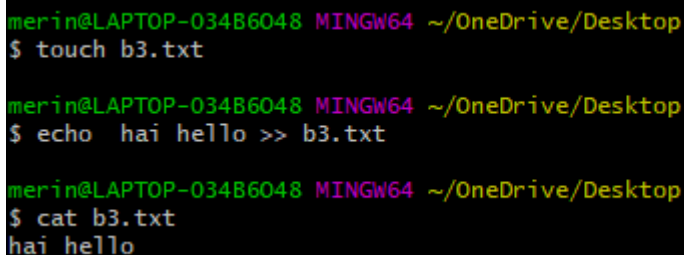
 6 python
 7 java
 8 ruby
 9 android
```

3. Touch

This command is used to create an empty file.

Syntax :- \$ touch filename

Output :-



```
merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ touch b3.txt

merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ echo hai hello >> b3.txt

merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ cat b3.txt
hai hello
```

4. head, head -4

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 :-

```
merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ head text.txt
hello world
welcome
c
c++
java

python
java
ruby
android

merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ head -4 text.txt
hello world
welcome
c
c++
```

5. Tail, -3

This tail command is used to displays the last ten lines of contents and tail -3 which displays the last 3 lines of contents.

Syntax :- \$ tail filename.txt
 \$ tail -3 filename.txt

Output:-

```
merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ tail text.txt
hello world
welcome
c
c++
java

python
java
ruby
android

merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ tail -4 text.txt
python
java
ruby
android
```

6. 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 :-

```

merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ cat > b1.txt
english 78
maths 80
science 79
hindi 76

[2]+  Stopped                  cat > b1.txt

merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ cut -d ' ' -f1 b1.txt
english
maths
science
hindi

```

7. cut ' '

This command is used cut the spaces.

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

Output :-

```

merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ cut -d ' ' -f2 b1.txt
78

79
76

```

8. cut -b 2

This command is used to displays the second letters.

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

Output :-

```

merin@LAPTOP-034B6048 MINGW64 ~/OneDrive/Desktop
$ cut -b2 b1.txt
n
a
c
i

```

9. 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@S27:~$ cut --complement -c 1 mark1
nglish 67
aths 69
cience 76
```

10. Paste

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

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

Output :-

```
student@S27:~$ cat > marvel1
captain america
iron man
hulk
spider man
root
^Z
[2]+  Stopped                  cat > marvel1
student@S27:~$ cat > marvel2
strange
panda
gemora
rebula
^Z
[3]+  Stopped                  cat > marvel2
```

```
student@S27:~$ paste -d '-' marvel1 marvel2
captain america-strange
iron man-panda
hulk-gemora
spider man-rebula
root-
```

11. 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@S27:~$ paste -d '-' marvel1 marvel2
captain america-strange
iron man-panda
hulk-gemora
spider man-rebula
root-
student@S27:~$ paste -d '%' marvel1 marvel2 marvel1
captain america%strange|captain america
iron man%panda|iron man
hulk%gemora|hulk
spider man%rebula|spider man
root%|root
```

12. Paste -s file1 file2

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

Syntax :- `$ paste -s file1.txt file2.txt`

Output :-

```
student@S27:~$ paste -s marvel1 marvel2
captain america iron man      hulk      spider man      root
strange panda  gemora  rebula
```

13. 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
```

Output :-

```
student@S37:~$ more -3 demo
Jana Gana Mana (Bengali: জাণা মন) is the national anthem of the Republic of India. It was originally composed as Bharoto Bhagyo Bidhata in Bengali by polymath Rabindranath Tagore

student@S37:~$ cat > demo
Jana Gana Mana (Bengali: জাণা মন) is the national anthem of the Republic of India. It was originally composed as Bharoto Bhagyo Bidhata in Bengali by polymath Rabindranath Tagore
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[5]+ Stopped      cat > demo
student@S37:~$ more demo
Jana Gana Mana (Bengali: জাণা মন) is the national anthem of the Republic of India. It was originally composed as Bharoto Bhagyo Bidhata in Bengali by polymath Rabindranath Tagore
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```

```
student@S37:~$ more +3 demo
Dana Gana Mana (Bengali: জন গণ মন) is the national anthem of the Republic of India. It was originally composed as Bharoto Bhagyo Bidhata in Bengali by polymath Rabindranath Tagore
Dana Gana Mana (Bengali: জন গণ মন) is the national anthem of the Republic of India. It was originally composed as Bharoto Bhagyo Bidhata in Bengali by polymath Rabindranath Tagore
Dana Gana Mana (Bengali: জন গণ মন) is the national anthem of the Republic of India. It was originally composed as Bharoto Bhagyo Bidhata in Bengali by polymath Rabindranath Tagore
Dana Gana Mana (Bengali: জন গণ মন) is the national anthem of the Republic of India. It was originally composed as Bharoto Bhagyo Bidhata in Bengali by polymath Rabindranath Tagore
```