

**Aim:** Familiarization with Linux command.

**CO2:** Perform system administration tasks.

**Procedure:**

1. `grep [pattern] [filename]`: the `grep` filter searches a file for a particular pattern of character and display all line that contain that. `Grep` stands for global for regular expression and printout.

`$grep 70 tex`

Output:

```
student@t2:~/diya$ grep 70 tex
hin:70
```

i. `grep -i [pattern] [filename]`: ignore case for matching.

`$grep -i ENG tex`

Output:

```
student@t2:~/diya$ grep -i ENG tex
eng:55
```

ii. `grep -A[n] [pattern] [filename]`: print searched line and n-lines after the result.

`$grep -A1 che tex`

Output:

```
student@t2:~/diya$ grep -A1 che tex
che:32
his:29
```

iii. `grep -B[n] [pattern] [filename]`: print searched line and n-lines before the result.

`$grep -B1 che tex`

Output:

```
student@t2:~/diya$ grep -B1 che tex
mat:41
che:32
```

iv. `grep -C[n] [pattern] [filename]`: print searched line and n-lines before and after the result.

`$grep -C1 che tex`

Output:

```
student@t2:~/diya$ grep -C1 che tex
mat:41
che:32
his:29
```

v. `grep -v [pattern] [filename]`: printout all the lines that do not matches the pattern.

`$grep -v che tex`

Output:

```
student@t2:~/diya$ grep -v che tex
eng:55
mal:63
hin:70
mat:41
his:29
```

vi. `cat [filename] | grep [pattern]`: pipelined command

`$cat tex | grep 41`

Output:

```
student@t2:~/diya$ cat tex|grep 41
mat:41
```

2. `head [filename]`: print the top N number of data of the given input, by default prints first 10 lines  
\$head num

Output:

```
student@t2:~/diya$ head num
1
2
3
4
5
6
7
8
9
10
```

- i. `head [-limit] [filename]`: to print the data up to the limit.  
\$head -5 num

Output:

```
student@t2:~/diya$ head -5 num
1
2
3
4
5
```

3. `tail [filename]`: print the last N number of data of the given input, by default prints first 10 lines.  
\$tail num

Output:

```
student@t2:~/diya$ tail num
7
8
9
10
11
12
13
14
15
16
```

- i. `tail [-limit] [filename]`: to print the data up to the limit.  
\$tail -5 num

Output:

```
student@t2:~/diya$ tail -5 num
12
13
14
15
16
```

## Result:

The program was executed and the result was successfully obtained. Thus, CO2 was obtained