

NETWORKING & SYSTEM ADMINISTRATION LAB**Name: Manya Madhu****Roll No: 17****Batch: S2 RMCA B****Date: 21-04-2022****Experiment No: 6****Aim**

Familiarization of linux commands.

Procedure**1. Read command**

Used to read the contents of a line into a variable.

```
$ read [options][name]
```

Output:

```
student@S17:~$ read name
my name marvel
student@S17:~$ echo $name
my name marvel
```

2. Locate command

Locate command and find command is used to search a file by name.

To locate a particular directory or file.

Find: not path specified it specifies if it exists or not.

a) locate -i filename

Ignore case it is used to ignore case sensitivity of the specified patterns.

Output:

```
student@S17:~$ locate -i empty.txt
/home/student/empty/empty/empty.txt
/home/student/empty/empty/many/empty.txt
/home/student/many/empty.txt
```

```
$ find empty.txt
```

Output:

```
empty.txt
```

3. grep command

The 'grep' command stands "global regular expression print". It will let you search through all the text in a given file.

\$ grep <search word>filename

Output:

```
student@S17:~/manya$ grep smarf marvel5
spider man      smarf
```

a) grep -i

This command filters output in a case-insensitive way.

\$ grep -i <search word><filename>

Output:

```
student@S17:~/manya$ grep -i HARRY marvel5
iron man        harry
```

b) grep -v

Command displays lines not matching to the specified word(inverted search).

Output:

```
student@S17:~/manya$ grep -v smarf marvel5
iron man        harry
super man       mickey
```

c) grep -A1

This command is used to display the line after the result.

Output:

```
student@S17:~/manya$ grep -A1 harry marvel5
iron man        harry
spider man      smarf
```

d) grep -B1

This command is used to display the line before the result.

```
student@S17:~/manya$ grep -B1 mickey marvel5
spider man      smarf
super man       mickey
```

e) grep -C1

This command is used to display the line after and line before the result.

Output:

```
student@S17:~/manya$ grep -C1 smarf marvel5
iron man      harry
spider man    smarf
super man     mickey
```

4. df command

Command used to display the disk space used in the file system(df – disk file system).

a) df -m

To see the reports in megabytes.

Output:

```
student@S17:~/manya$ df -m
Filesystem      1M-blocks  Used Available Use% Mounted on
udev             3896      0      3896   0% /dev
tmpfs             785        2        784   1% /run
/dev/sda6       111779 37539    68520  36% /
tmpfs            3925        8       3918   1% /dev/shm
tmpfs             5          1          5   1% /run/lock
tmpfs            3925        0       3925   0% /sys/fs/cgroup
/dev/loop0        219       219          0 100% /snap/gnome-3-34-1804/72
/dev/loop1         1          1          0 100% /snap/gtk2-common-themes/13
/dev/loop2         1          1          0 100% /snap/gnome-logs/81
```

5. du command

du stands for disk usage, to check how much space a file or directory takes.

Output:

```
student@S17:~/manya$ du
4      ./new
56     .
```

6. wc command

Helps to counting the lines, words and characters in a file.

a) \$ wc -l filename

It displays the number of lines

Output:

```
student@S17:~/manya$ wc -l marvel5
3 marvel5
```

b) \$ wc -w filename

It displays the number of words

Output:

```
student@S17:~/manya$ wc -w marvel5  
9 marvel5
```

c) \$ wc -c filename

It displays the number of characters

Output:

```
student@S17:~/manya$ wc -c marvel5  
49 marvel5
```

d) \$ wc -m filename

It displays number of bytes.

Output:

```
student@S17:~/manya$ wc -m marvel5  
49 marvel5
```