

NETWORKING&SYSTEM ADMINISTRATION LAB**Experiment No.: 7****Aim**

Familiarization of Linux Commands

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Date: 21-4-2022

Procedure**1. read**

To read the content of a line to a variable

Syntax :

```
student@S38:~$ read name
my name is silvia
student@S38:~$ echo $name
my name is silvia
```

2. locate

The Locate command is used to find the files by name

Syntax :

```
student@S38:~$ locate dd.txt
/home/student/dd.txt
/home/student/sample/dd.txt
/home/student/silvia/music/sample/dd.txt
```

3. find

The find command is used to search and locate the list of files and directories based on conditions you specify for files that match the argument.

Syntax :

```
student@S38:~$ find dd.txt
dd.txt
```

4. locate -i

The locate -i command is used for display the file name that is in both capital and small letters

Syntax :

```
student@S38:~$ locate -i
locate: no pattern to search for specified
```

5. grep

The grep command will let you search through all the text in a given file.

Syntax :

```
student@S38:~$ grep silvia dd.txt
hai i am silvia.studying in amal jyothy college of engineering kanjirappaly.
how are you..?i am silvia
```

6. grep -A1

To display the line after the result.

Syntax :

```
student@S38:~$ grep -A1 silvia dd.txt
hai i am silvia.studying in amal jyothy college of engineering kanjirappaly.
hloooo
how are you..?i am silvia
```

7. grep -B1

To display the line before the result.

Syntax :

```
student@S38:~$ grep -B1 amal dd.txt
hai i am silvia.studying in amal jyothy college of engineering kanjirappaly.
```

8. grep -C1

To display both the line before and after the result.

Syntax :

```
student@S38:~$ grep -C1 engineering dd.txt
hai i am silvia.studying in amal jyothy college of engineering kanjirappaly.
hloooo
```

9. grep -i

This command is used for an case insensitive search

Syntax :

10. grep -v

This command is used for an inverted search (it excluding the line that contains the particular word)

Syntax :

```
student@S28:~$ grep -v maths mark1
english 67
science 76
z
```

11. df

The df command is used to get a report on system disk space usage.

Syntax:

```
student@S38:~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            3989728        0   3989728    0% /dev
tmpfs           803844      1820    802024    1% /run
/dev/sda6       114460828 34558760  74044688   32% /
tmpfs           4019216        0   4019216    0% /dev/shm
tmpfs           5120         4      5116     1% /run/lock
tmpfs           4019216        0   4019216    0% /sys/fs/cgroup
/dev/loop0      164096     164096        0 100% /snap/gnome-3-28-1804/116
/dev/loop2      207872     207872        0 100% /snap/vlc/1397
/dev/loop3        640        640        0 100% /snap/gnome-logs/106
/dev/loop16     253952     253952        0 100% /snap/gnome-3-38-2004/87
/dev/loop22      2688      2688        0 100% /snap/gnome-calculator/920
/dev/loop1      63488     63488        0 100% /snap/core20/1376
/dev/loop4       2688      2688        0 100% /snap/gnome-system-monitor/174
/dev/loop7       2560      2560        0 100% /snap/gnome-calculator/884
/dev/loop5     144128     144128        0 100% /snap/gnome-3-26-1604/104
/dev/loop8      46080     46080        0 100% /snap/gtk-common-themes/1440
/dev/loop6      66816     66816        0 100% /snap/gtk-common-themes/1519
/dev/loop10     114304     114304        0 100% /snap/core/12941
/dev/loop11     56960     56960        0 100% /snap/core18/2344
/dev/loop12       768       768        0 100% /snap/gnome-characters/761
/dev/loop28      1024      1024        0 100% /snap/gnome-logs/81
/dev/loop14     168832     168832        0 100% /snap/gnome-3-28-1804/161
/dev/loop17       128       128        0 100% /snap/bare/5
/dev/loop18     144128     144128        0 100% /snap/gnome-3-26-1604/98
/dev/loop21      2688      2688        0 100% /snap/gnome-system-monitor/169
/dev/loop19     540928     540928        0 100% /snap/pycharm-community/274
/dev/loop26      63488     63488        0 100% /snap/core20/1405
/dev/loop27       768       768        0 100% /snap/gnome-characters/741
/dev/loop24     56960     56960        0 100% /snap/core18/2284
/dev/loop9      302848     302848        0 100% /snap/vlc/2344
/dev/loop15     224256     224256        0 100% /snap/gnome-3-34-1804/77
/dev/loop13     224256     224256        0 100% /snap/gnome-3-34-1804/72
```

12. df -m

This command is used to see the reports in mega bytes.

Syntax :

```
student@S38:~$ df -m
Filesystem            1M-blocks    Used Available Use% Mounted on
udev                  3897         0      3897    0% /dev
tmpfs                  786         2       784    1% /run
/dev/sda6             111779 33749    72310   32% /
tmpfs                  3926         0      3926    0% /dev/shm
tmpfs                   5         1         5    1% /run/lock
tmpfs                  3926         0      3926    0% /sys/fs/cgroup
/dev/loop0             161        161         0 100% /snap/gnome-3-28-1804/116
/dev/loop2             203        203         0 100% /snap/vlc/1397
/dev/loop3              1          1         0 100% /snap/gnome-logs/106
/dev/loop16            248        248         0 100% /snap/gnome-3-38-2004/87
/dev/loop22             3          3         0 100% /snap/gnome-calculator/920
/dev/loop1             62         62         0 100% /snap/core20/1376
/dev/loop4              3          3         0 100% /snap/gnome-system-monitor/174
/dev/loop7              3          3         0 100% /snap/gnome-calculator/884
/dev/loop5            141        141         0 100% /snap/gnome-3-26-1604/104
/dev/loop8             45         45         0 100% /snap/gtk-common-themes/1440
/dev/loop6             66         66         0 100% /snap/gtk-common-themes/1519
/dev/loop10           112        112         0 100% /snap/core/12941
/dev/loop11            56         56         0 100% /snap/core18/2344
/dev/loop12             1          1         0 100% /snap/gnome-characters/761
/dev/loop28             1          1         0 100% /snap/gnome-logs/81
/dev/loop14           165        165         0 100% /snap/gnome-3-28-1804/161
/dev/loop17             1          1         0 100% /snap/bare/5
/dev/loop18           141        141         0 100% /snap/gnome-3-26-1604/98
/dev/loop21             3          3         0 100% /snap/gnome-system-monitor/169
/dev/loop19           529        529         0 100% /snap/pycharm-community/274
/dev/loop26            62         62         0 100% /snap/core20/1405
/dev/loop27             1          1         0 100% /snap/gnome-characters/741
/dev/loop24            56         56         0 100% /snap/core18/2284
```

13. du

This command is used to check how much space a file or directory takes.

Syntax :

```
student@S38:~$ du
4      ./ssh
16     ./silvia/music/sample
20     ./silvia/music
4      ./silvia/silsilk/jad/sprit
8      ./silvia/silsilk/jad
12     ./silvia/silsilk
40     ./silvia
```

14. wc

This command is used for counting purpose, it is used to find the number of lines, the number of words, the number of characters and the number of bytes.

Syntax :

```
student@S38:~$ wc -c marvel2
31 marvel2
```

15. wc -m

This command is used for finding the number of words.

Syntax :

```
student@S38:~$ wc -w marvel1
9 marvel1
```

16. wc -w

This command is used for finding the number of bytes.

Syntax :

```
student@S38:~$ wc -w marvel1
9 marvel1
```

17. wc -l

Amal Jyothi College of Engineering,

This command is used for finding the number of lines.

Syntax :

```
student@S38:~$ wc -l marvel1  
7 marvel1
```

18. wc -c

This command is used for finding the number of characters.

Syntax :

```
student@S38:~$ wc -c marvel2  
31 marvel2
```

