NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No: 6

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Roll No:41

Batch:RMCA S2B

Date:21-04-2022

<u>Aim</u>

Familiarization of linux commands

Procedure

1. **\$read:**: This command is used to read the content of a line of a variable

Output:

```
student@S41:~$ read name
My name is Sreelakshmi R
student@S41:~$ echo $name
My name is Sreelakshmi R
```

2. \$locate: This command is used to locate a particular file or directory

Output:

```
student@S41:~$ locate b1.txt
/home/student/sree/b1.txt
student@S41:~$ locate b2.txt
/home/student/sree/b2.txt
/usr/share/doc/qemu-system-common/usb2.txt.gz
```

3. \$find : This command is used to search and locate the list of files in the current directory.

Output:

4. \$locate -i filename: This command is used to perform case insensitive search.

Output:

```
student@S41:~$ locate -i b2.txt
/home/student/sree/b2.txt
/usr/share/doc/qemu-system-common/usb2.txt.gz
```

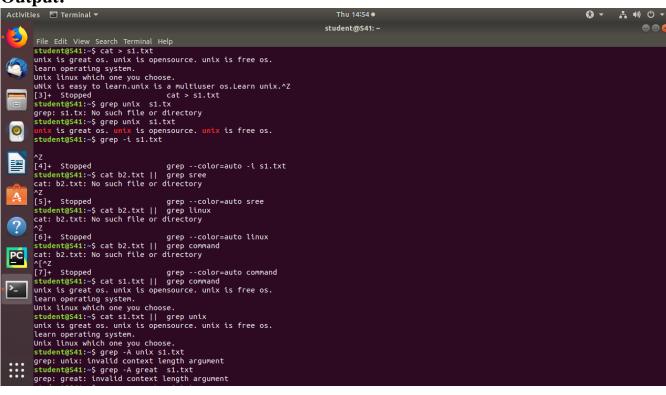
5. \$grep:This command will let you search through all the text in a file.

Output:

```
student@S41:~$ grep -A1 using s2.txt
By default, grep displays the entire line which has the matched string. We can make the grep to display only the matched string by using the -
o option. unix is great os. unix is opensource. unix is free os.
learn operating system.
```

6. \$grep -i: This command filter output in a case insensitive way.

Output:



7. \$grep -v:This command displays lines not matching to the specified word.

Output:

```
student@S41:~$ grep -v operating s2.txt

By default, grep displays the entire line which has the matched string. We can make the grep to display only the matched string by using the -
o option. unix is great os. unix is opensource. unix is free os.

Unix linux which one you choose.
```

8. \$grep -A1: This command is used to display line after result

```
student@S41:-$ grep -A1 using s2.txt

By default, grep displays the entire line which has the matched string. We can make the grep to display only the matched string by using the -
o option. unix is great os. unix is opensource. unix is free os.
learn operating system.
```

9. \$grep -B1:This command is used to display the line before the result.

Output:

```
student@S41:~$ grep -B1 using s2.txt

By default, grep displays the entire line which has the matched string. We can make the grep to display only the matched string by using the -
o option. unix is great os. unix is opensource. unix is free os.
student@S41:~$ grep -v operating
^Z
[10]+ Stopped grep --color=auto -v operating
```

10. \$grep -C1: This command is used to display the line before and after the result

Output:

11. \$df: This command is used s used to show the amount of free disk space available and to understand the filesystems that have been mounted.

12.\$du: The du command is used to gain disk usage information quickly.It is applied to current working directory.

Output:

- **13. \$wc**: This command is used counting purpose. It is used to find the number of lines ,the number of words ,number of charcters and number of bytes.
- 14. \$wc -1: Count number of lines

Output:

```
student@S41:~$ wc -l s2.txt
3 s2.txt
```

15. \$wc -w:Count number of words

```
student@S41:~$ wc -w s2.txt
48 s2.txt
```

16. \$wc -c:Count number of characters

Output:

```
student@S41:~$ wc -c s2.txt
264 s2.txt
```

17. \$wc-m:Count number of lines.

```
        student@S41:~$ df -m
        Filesystem
        1M-blocks
        Used Available Use% Mounted on udev
        3896
        0
        3896
        0% /dev

        tmpfs
        785
        2
        784
        1% /run

        /dev/sda6
        581222
        35353
        521077
        7% /

        tmpfs
        3925
        29
        3897
        1% /dev/shm

        tmpfs
        5
        1
        5
        1% /run/lock

        tmpfs
        3925
        0
        3925
        0% /sys/fs/cgroup

        /dev/loop5
        1
        0
        100% /snap/gtk2-common-themes/5

        /dev/loop6
        141
        141
        0
        100% /snap/gimp/227

        /dev/loop7
        203
        203
        0
        100% /snap/gimp/227

        /dev/loop19
        4
        4
        0
        100% /snap/gimp-2284

        /dev/loop2
        56
        56
        0
        100% /snap/gimone-system-monitor/111

        /dev/loop3
        3
        3
        0
        100% /snap/gimone-claculator/884

        /dev/loop4
        11
        11
        0
        100% /snap/gimone-claculator/884

        /dev/loop7
        392
        392
```