

NETWORKING&SYSTEM ADMINISTRATION LAB

Experiment No.: 7

Aim

Familiarization of Linux Commands

Name: RITTYMARIYA KR

Roll No: 28

Batch: MCA B

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Procedure

1. read

To read the content of a line to a variable

Syntax :

```
student@S28:~$ read name
my name is ritty
student@S28:~$ echo $name
my name is ritty
```

2. locate

The Locate command is used to find the files by name

Syntax :

```
student@S28:~$ locate file.txt
/home/android/.gradle/wrapper/dists/gradle-4.4-all/9br9xq1tocpiv8o6njlyu5op1/gradle-4.4/samples/userguide/files/archiveNaming/somedir/file.txt
/home/android/.gradle/wrapper/dists/gradle-4.4-all/9br9xq1tocpiv8o6njlyu5op1/gradle-4.4/samples/userguide/tutorial/zipWithArguments/somedir/file.txt
/home/android/.gradle/wrapper/dists/gradle-4.4-all/9br9xq1tocpiv8o6njlyu5op1/gradle-4.4/samples/userguide/tutorial/zipWithCustomName/somedir/file.txt
/home/android/Android/Sdk/platform-tools/systrace/catapult/devil/devil/android/sdk/test/data/push_file.txt
/home/android/SDK/platform-tools/systrace/catapult/devil/devil/android/sdk/test/data/push_file.txt
/home/student/.local/share/Trash/files/file.txt
/home/student/.local/share/Trash/info/file.txt.trashinfo
/home/student/Desktop/file.txt
/home/student/ritty/file.txt
/usr/share/doc/alsa-base/driver/Procfile.txt.gz
```

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@S28:~$ find mark1
mark1
```

4. locate -i

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

Syntax :

```
student@S28:~$ locate -i FILE.TXT
/home/android/.gradle/wrapper/dists/gradle-4.4-all/9br9xq1tocpiv8o6njlyu5op1/gradle-4.4/samples/userguide/files/archiveNaming/somedir/file.txt
/home/android/.gradle/wrapper/dists/gradle-4.4-all/9br9xq1tocpiv8o6njlyu5op1/gradle-4.4/samples/userguide/tutorial/zipWithArguments/somedir/file.txt
/home/android/.gradle/wrapper/dists/gradle-4.4-all/9br9xq1tocpiv8o6njlyu5op1/gradle-4.4/samples/userguide/tutorial/zipWithCustomName/somedir/file.txt
/home/android/Android/Sdk/platform-tools/systrace/catapult/devil/devil/android/sdk/test/data/push_file.txt
/home/android/SDK/platform-tools/systrace/catapult/devil/devil/android/sdk/test/data/push_file.txt
/home/student/.local/share/Trash/files/file.txt
/home/student/.local/share/Trash/info/file.txt.trashinfo
/home/student/Desktop/file.txt
/home/student/ritty/file.txt
/usr/local/glassfish-4.1.1/glassfish/legal/3RD-PARTY-LICENSE-WEB-PROFILE.txt
/usr/share/doc/alsa-base/driver/Procfile.txt.gz
```

5. grep

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

Syntax :

```
student@S28:~$ grep maths mark1
maths 69
```

6. grep -A1

To display the line after the result.

Syntax :

```
student@S28:~$ grep -A1 maths mark1
maths 69
science 76
```

7. grep -B1

To display the line before the result.

Syntax :

```
student@S28:~$ grep -B1 maths mark1
english 67
maths 69
```

8. grep -C1

To display both the line before and after the result.

Syntax :

```
student@S28:~$ grep -C1 maths mark1
english 67
maths 69
science 76
```

9. grep -i

This command is used for an case insensitive search

Syntax :

```
student@S28:~$ grep -i MATHS mark1
maths 69
```

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@S28:~$ df
Filesystem      1K-blocks      Used Available Use% Mounted on
udev            3989828         0    3989828   0% /dev
tmpfs           803864        1800    802064   1% /run
/dev/sda6       114460828 41795352 66808096  39% /
tmpfs           4019316         0    4019316   0% /dev/shm
tmpfs           5120           4        5116   1% /run/lock
tmpfs           4019316         0    4019316   0% /sys/fs/cgroup
/dev/loop6      144128        144128         0 100% /snap/gnome-3-26-1604/104
/dev/loop3       3840          3840         0 100% /snap/gnome-system-monitor/45
/dev/loop5       540928        540928         0 100% /snap/pycharm-community/274
/dev/loop4       113280        113280         0 100% /snap/core/12834
/dev/loop2        2432         2432         0 100% /snap/gnome-calculator/178
/dev/loop0       302848        302848         0 100% /snap/vlc/2344
```

12. df -m

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

Syntax :

```
student@S28:~$ 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 40816      65243  39% /
tmpfs           3926         0        3926   0% /dev/shm
tmpfs           5           1          5   1% /run/lock
tmpfs           3926         0        3926   0% /sys/fs/cgroup
/dev/loop6      141         141         0 100% /snap/gnome-3-26-1604/104
/dev/loop3       4           4         0 100% /snap/gnome-system-monitor/45
/dev/loop5       529         529         0 100% /snap/pycharm-community/274
/dev/loop4       111         111         0 100% /snap/core/12834
/dev/loop2        3           3         0 100% /snap/gnome-calculator/178
/dev/loop0       296         296         0 100% /snap/vlc/2344
/dev/loop7       56          56         0 100% /snap/core18/2284
/dev/loop1        3           3         0 100% /snap/gnome-system-monitor/174
/dev/loop8        1           1         0 100% /snap/gnome-characters/741
/dev/loop9        3           3         0 100% /snap/gnome-calculator/920
```

13. du

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

Syntax :

```
student@S28:~$ du
4      ./ssh
688    ./cache/fontconfig
8      ./cache/thumbnails/fail/gnome-thumbnail-factory
12     ./cache/thumbnails/fail
16     ./cache/thumbnails
8      ./cache/update-manager-core
4      ./cache/ibus-table
872    ./cache/gnome-software/fwupd/remotes.d/lvfs
876    ./cache/gnome-software/fwupd/remotes.d
880    ./cache/gnome-software/fwupd
672    ./cache/gnome-software/shell-extensions
372    ./cache/gnome-software/cssresource
552    ./cache/gnome-software/icons
2480   ./cache/gnome-software
216    ./cache/wallpaper
```

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@S28:~$ wc marvel1
5  8 46 marvel1
```

15. wc -w

This command is used for finding the number of words.

Syntax :

```
student@S28:~$ wc -w marvel1
8 marvel1
```

16. wc -m

This command is used for finding the number of bytes.

Syntax :

```
student@S28:~$ wc -m marvel1
46 marvel1
```

17. wc -l

This command is used for finding the number of lines.

Syntax :

```
student@S28:~$ wc -l marvel1  
5 marvel1
```

18. wc -c

This command is used for finding the number of characters.

Syntax :

```
student@S28:~$ wc -c marvel1  
46 marvel1
```