NETWORKING & SYSTEM ADMINISTRATION LAB

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Batch: RMCA(B)

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Experiment No: 8

Aim

Familiarization of basic linux commands

Procedure:

1.$read

To read the content of a line to a variable

```
student@S32:~$ read name
my name is rovy
student@S32:~$ echo name
name
student@S32:~$ echo $name
my name is rovy
```

2.$locate

To find file in any directory

```
student@S32:~$ locate b.txt
/etc/X11/rgb.txt
/home/android/Android/Sdk/tools/support/typos-nb.txt
/home/student/rovy/b.txt
/home/student/simple/bbbb.txt
/opt/android-studio/bin/lldb/lib/python2.7/test/cjkencodin
/opt/lampp/htdocs/drupal-8.6.15/core/modules/system/tests/
/opt/lampp/licenses/IO-Zlib.txt
/opt/lampp/licenses/mariadb.txt
```

3.$locate -i

it is used in case insentive search

```
student@S32:~$ locate -i  B.txt
/etc/X11/rgb.txt
/home/android/Android/Sdk/tools/support/typos-nb.txt
/home/student/rovy/b.txt
/home/student/simple/bbbb.txt
/opt/android-studio/bin/lldb/lib/python2.7/test/cjkencoding
/opt/lampp/htdocs/drupal-8.6.15/core/modules/system/tests/f
/opt/lampp/licenses/IO-Zlib.txt
/opt/lampp/licenses/mariadb.txt
/opt/lampp/licenses/zlib.txt
```

4.$find

find file in a particular directory

```
student@S32:~/rovy$ find b.txt
b.txt
student@S32:~/rovy$ cat b.txt
hello world
how are you
iam second
salu
```

5.$Grep

Grep commad will let you search through all the text in a given file

```
student@S32:~/rovy$ grep are b.txt
how are you
```

grep -A1

To display the content and after the result.

grep -B1

To display the before line of the content.

grep -C1

Before and after lines are displayed.

```
student@S32:~/rovy$ grep -A1 morning  new.txt
morning
this is
student@S32:~/rovy$ grep -B1 morning  new.txt
hi hello
morning
student@S32:~/rovy$ grep -C1 morning  new.txt
hi hello
morning
this is
```

6.$df

Is used to get a report on system disc

```
student@S32:~/rovy$ df
Filesystem      1K-blocks      Used Available Use% Mounted on
udev             3989828         0   3989828   0% /dev
tmpfs             803864      1892    801972   1% /run
/dev/sda6      114460828 38190516  70412932  36% /
tmpfs            4019316         0   4019316   0% /dev/shm
tmpfs               5120         4      5116   1% /run/lock
tmpfs            4019316         0   4019316   0% /sys/fs/cgroup
/dev/loop13       166784    166784         0 100% /snap/gnome-3-28-1804/145
/dev/loop15         2560      2560         0 100% /snap/gnome-calculator/884
/dev/loop3          2688      2688         0 100% /snap/gnome-system-monitor/169
/dev/loop25          640       640         0 100% /snap/gnome-logs/106
/dev/loop7          2688      2688         0 100% /snap/gnome-calculator/920
/dev/loop20         2688      2688         0 100% /snap/gnome-system-monitor/174
/dev/loop2           768       768         0 100% /snap/gnome-characters/761
/dev/loop8         56960     56960         0 100% /snap/core18/2284
/dev/loop11       302848    302848         0 100% /snap/vlc/2344
/dev/loop12       114304    114304         0 100% /snap/core/12941
/dev/loop14        56960     56960         0 100% /snap/core18/2344
```

7.$df -m

how many mega bytes used

```
student@S32:~/rovy$ 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 37296     68763  36% /
tmpfs                 3926     0      3926   0% /dev/shm
tmpfs                    5     1         5   1% /run/lock
tmpfs                 3926     0      3926   0% /sys/fs/cgroup
/dev/loop13            163   163         0 100% /snap/gnome-3-28-1804/145
/dev/loop15              3     3         0 100% /snap/gnome-calculator/884
/dev/loop3               3     3         0 100% /snap/gnome-system-monitor/169
/dev/loop25              1     1         0 100% /snap/gnome-logs/106
/dev/loop7               3     3         0 100% /snap/gnome-calculator/920
/dev/loop20              3     3         0 100% /snap/gnome-system-monitor/174
/dev/loop2               1     1         0 100% /snap/gnome-characters/761
/dev/loop8              56    56         0 100% /snap/core18/2284
/dev/loop11            296   296         0 100% /snap/vlc/2344
/dev/loop12            112   112         0 100% /snap/core/12941
/dev/loop14             56    56         0 100% /snap/core18/2344
/dev/loop10            165   165         0 100% /snap/gnome-3-28-1804/161
```

8.$du

To check how much space a file in a current directory takes

```
student@S32:~/rovy$ du
60      ./simple
60      ./rovy
132     .
student@S32:~/rovy$ du -c
60      ./simple
60      ./rovy
132     .
132     total
```

9.$wc word count

used for counting purpose

wc -l filename.txt

wc -c filename.txt

wc -m filename.txt

wc -w filename.txt

```
student@S32:~/rovy$ wc b.txt
 4  8 40 b.txt
student@S32:~/rovy$ wc -l  b.txt
4 b.txt
student@S32:~/rovy$ wc -c  b.txt
40 b.txt
student@S32:~/rovy$ wc -m  b.txt
40 b.txt
student@S32:~/rovy$ wc -w  b.txt
8 b.txt
```

10.$grep -i filename

for an case insenstive search.

```
student@T70:~/sample$ grep -i bb.txt
^Z
[2]+  Stopped                  grep --color=auto -i bb.txt
```

11.$grep -v content filename.txt

Used inverted search

```
student@T70:~/sample$ grep -v salu bb.txt
moving command
hello
good morning
```

12.$cat bb.txt | grep salu

Highlight word

```
student@T70:~/sample$ cat bb.txt | grep salu
hai salu
```