

Ex 1

ADVANCED LINUX COMMANDS

Date: 18.08.20

Aim:

To study and implement the linux commands

Description:

Sl. No.	Command Name	Description	options
1.	ls	List files and/or directories.	-a, --all do not ignore entries starting with. -A, --almost-all do not list implied. and. --author with -l, print the author of each file -b, --escape print C-style escapes for nongraphic characters --block-size=SIZE
2.	Who am i	This command reveals the user who is currently logged in.	-a, --all =same as -b -d --login -p -r -t -T -u -b, --boot time of last system boot -d, --dead print dead processes -H, --heading print line of column headings -l, --login

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			<p>print system login processes</p> <p>--lookup</p> <p>attempt to canonicalize hostnames via</p>
3.	pwd	prints the absolute path to the current working directory	<p>-L, --logical</p> <p>use PWD from the environment, even if it contains symlinks</p> <p>-P, --physical</p> <p>avoid all symlinks</p>
4.	cal	Displays the calendar of the current month	<p>-1, --one</p> <p>Display single month output. (This is the default.)</p> <p>-3, --three</p> <p>Display prev/current/next month output.</p> <p>-s, --Sunday</p> <p>Display Sunday as the first day of the week.</p> <p>-m, --Monday</p> <p>Display Monday as the first day of the week.</p> <p>-j, --Julian</p> <p>Display Julian dates (days one based, numbered from January 1).</p> <p>-y, --year</p>
5.	echo	This command will echo whatever you provide it.	<p>-n</p> <p>do not output the trailing</p>

			<p>newline</p> <p>-e</p> <p>enable interpretation of backslash escapes</p> <p>-E</p> <p>disable the interpretation of backslash escapes (default)</p>
6.	date	Displays current time and date.	<p>-d, --date=STRING</p> <p>display time described by STRING, not 'now'</p> <p>-f, --file=DATEFILE</p> <p>like --date once for each line of DATEFILE</p>
7.	tty	Displays the current terminal.	
8.	id	This command prints user and groups (UID and GID) of the current user.	<p>-a</p> <p>ignore, for compatibility with other versions</p> <p>-Z, --context</p> <p>print only the security context of the current user</p> <p>-g, --troup</p> <p>print only the effective group ID</p> <p>-G, --groups</p> <p>print all group IDs</p> <p>-n, --name</p> <p>print a name instead of a number, for -ugG</p>
9.	clear	This command clears the screen.	
10.	man	To show manual page	
11.	cd	Change the current working	

		directory to the directory provided as an argument.	
12.	mkdir	To create a directory, the 'mkdir' command is used.	
13.	touch	For creating an empty file, use the touch command.	
14.	cp	Copy files and directories	
15.	mv	Move files or directories. The 'mv' command works like 'cp' command, except that the original file is removed. But, the mv command can be used to rename the files (or directories).	
16.	rmdir	the command removes any empty directories, but cannot delete a directory if a file is present in it.	
17.	file	The file command determines the file type of a given file.	
18.	cat	The 'cat' command is actually a concatenator but can be used to view the contents of a file.	
19.	head	Displays the first few lines of a file. By default, the 'head' command displays the first 10 lines of a file.	
20.	tail	the 'tail' command shows the last 10 lines by default	<p>-c, --bytes=[-]K print the first K bytes of each file</p> <p>-n, --lines=[-]K print the first K lines instead of the first 10</p> <p>-q, --quiet, --silent never print headers giving file names</p>
21.	wc	This command counts lines, words, and letters of the input given to it.	

22.	grep	The 'grep' command searches for a pattern in a file (or standard input).	
23.	vi	Visual editor	
24.	alias	The 'alias' is another name for a command.	
25.	history	shows the commands you have entered on your terminal so far.	
26.	passwd	To change your password	
27.	help	With almost every command, '--help' option shows usage summary for that command.	
28.	chmod	The chmod command lets you change access permissions for a file.	
29.	stat	To check the status of a file. This provides more detailed information about a file than 'ls -l' output.	<p>-L, --dereference follow links</p> <p>-f, --file-system display file system status instead of file status</p> <p>-c --format=FORMAT use the specified FORMAT instead of the default; output a newline after each use of FORMAT</p> <p>--printf=FORMAT</p>
30.	ln	The ln command is used in Linux to create links.	

Exercise:

1. List the contents of user's home directory including the hidden files

```
[urk17cs054@code ~]$ ls -a
.          a11.c    a26.c    a42.c      arm.c
..         a12.c    a27.c    a43.c      array.c
\          a12.c6  a28.c    a44.c      bank1.cpp
10-1.cpp   a13.c    a29.c    a45.c      bank1.cppclear
10-2.cpp   a14.c    a2.c     a46.c      bank.cpp
10-3.cpp   a16.c    a30.c    a47.c      .bash_history
1.c        a17.c    a31.c    a4.c       .bash_logout
1.cpp      a18.c    a32.c    a5.c       .bash_profile
2.c        a19.c    a33.c    a6.c       .bashrc
2darray.c  a1.c     a34.c    a7.c       bitwise.c
3.c        a20.c    a35.c    a8.c       bitwise.c.save
4.c        a21.c    a36.c    a9.c       bmi.c
5.c        a22.c    a39.c    adding.c   class1.cpp
6.c        a23.c    a3.c     adding part2 class.cpp
7.c        a24.c    a40.c    a.out      conditional.c
8.c        a25.c    a41.c    area.c     .config
```

2. List the content of /var directory?

```
[urk17cs054@code var]$ cd /var
[urk17cs054@code var]$ ls
adm      centrifdyda  db      gopher    local  mail  preserve  tmp
cache    centrifyc   empty   kerberos  lock   nis   run       yp
centrify crash       games   lib       log    opt   spool
```

3. Create two directories named dir1 & dir2

```
[urk17cs054@code var]$ cd
[urk17cs054@code ~]$ mkdir dir1 dir2
[urk17cs054@code ~]$ ls d*
days.cpp  distance.c

dir1:

dir2:
```

4. Create a hidden directory with your name?

```
[urk17cs054@code dir2]$ mkdir .reeves
[urk17cs054@code dir2]$
```

5. Display the content of a hidden directory.

```
[urk17cs054@code dir2]$ cd .reeves
[urk17cs054@code .reeves]$ touch noel
[urk17cs054@code .reeves]$ ls
noel
[urk17cs054@code .reeves]$
```

6. Display the calendar of 2020.

```
[urk17cs054@code ~]$ cal 2020
                2020

    January                      February                      March
Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa
                1  2  3  4                   1                   1  2  3  4  5  6  7
 5  6  7  8  9 10 11   2  3  4  5  6  7  8   8  9 10 11 12 13 14
12 13 14 15 16 17 18   9 10 11 12 13 14 15   15 16 17 18 19 20 21
19 20 21 22 23 24 25   16 17 18 19 20 21 22   22 23 24 25 26 27 28
26 27 28 29 30 31     23 24 25 26 27 28 29   29 30 31

    April                        May                          June
Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa
                1  2  3  4                   1  2                   1  2  3  4  5  6
 5  6  7  8  9 10 11   3  4  5  6  7  8  9   7  8  9 10 11 12 13
12 13 14 15 16 17 18   10 11 12 13 14 15 16   14 15 16 17 18 19 20
19 20 21 22 23 24 25   17 18 19 20 21 22 23   21 22 23 24 25 26 27
26 27 28 29 30         24 25 26 27 28 29 30   28 29 30
                        31

    July                        August                       September
Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa
                1  2  3  4                   1                   1  2  3  4  5
 5  6  7  8  9 10 11   2  3  4  5  6  7  8   6  7  8  9 10 11 12
12 13 14 15 16 17 18   9 10 11 12 13 14 15   13 14 15 16 17 18 19
19 20 21 22 23 24 25   16 17 18 19 20 21 22   20 21 22 23 24 25 26
26 27 28 29 30 31     23 24 25 26 27 28 29   27 28 29 30
                        30 31

    October                     November                     December
Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa
                1  2  3   1  2  3  4  5  6  7   1  2  3  4  5
 4  5  6  7  8  9 10   8  9 10 11 12 13 14   6  7  8  9 10 11 12
11 12 13 14 15 16 17   15 16 17 18 19 20 21   13 14 15 16 17 18 19
18 19 20 21 22 23 24   22 23 24 25 26 27 28   20 21 22 23 24 25 26
25 26 27 28 29 30 31   29 30                   27 28 29 30 31
```

7. Copy the file /etc/passwd file to current directory with sample.txt as the filename

```
[urk17cs054@code ~]$ cat /etc/passwd > samp.txt
[urk17cs054@code ~]$ cat samp.txt
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
```

8. Create a file test1.txt using Vim editor with the following contents to it

Name	RegNo	ResearchInterest
Melvin	07af501	GridComputing
Mithin	07af502	ClusterComputing
James	07af503	ImageProcessing
Jane	07af504	Networking
Caroline	07af505	ClusterComputing
Binu	07af506	GridComputing
Aaron	07af507	ImageProcessing
Selvin	07af508	Networking
Jerwin	07af509	WirelessNetworks
Arun	07af510	GridComputing

8a) Display the student names who are having Research Interest as Grid Computing

```
[urk17cs054@code ~]$ grep GridComputing test1.txt | cut -f 1
Melvin
Binu
Arun
[urk17cs054@code ~]$
```


8b) List all the student names & RegNo in the class

```
[urk17cs054@code ~]$ cut -f 1,2 test1.txt
Name      RegNo
Melvin    07af501
Mithin    07af502
James     07af503
Jane      07af504
Caroline   07af505
Binu      07af506
Aaron     07af507
Selvin    07af508
Jervin    07af509
Arun      07af510
[urk17cs054@code ~]$
```

8c) List the count of students who have interest as Image Processing and store the result in another file.

```
[urk17cs054@code ~]$ grep ImageProcessing test1.txt | wc -l > test2.txt
[urk17cs054@code ~]$ cat test2.txt
2
[urk17cs054@code ~]$
```

8d) Display the first two rows and last two and store into another file

```
[urk17cs054@code ~]$ head -2 test1.txt >> test3.txt | tail -2 test1.txt >> test3.txt
[urk17cs054@code ~]$ cat test3.txt
Jervin 07af509 WirelessNetworks
Arun 07af510 GridComputing
Name RegNo ResearchInterest
Melvin 07af501 GridComputing
```

9. Display the contents of the file test1.txt without any blank lines

```
[urk17cs054@code ~]$ grep -v '^$' test1.txt
Name      RegNo      ResearchInterest
Melvin    07af501    GridComputing
Mithin    07af502    ClusterComputing
James     07af503    ImageProcessing
Jane      07af504    Networking
Caroline           07af505    ClusterComputing
Binu      07af506    GridComputing
Aaron     07af507    ImageProcessing
Selvin    07af508    Networking
Jervin    07af509    WirelessNetworks
Arun      07af510    GridComputing
[urk17cs054@code ~]$ vi test1.txt
[urk17cs054@code ~]$
```

10. Move the file sample.txt from dir1 directory to dir2 directory

```
[urk17cs054@code dir1]$ mv sample.txt dir2
[urk17cs054@code dir1]$ cd ../dir2
-bash: cd: ../dir2: No such file or directory
[urk17cs054@code dir1]$ cd
[urk17cs054@code ~]$ cd dir2
[urk17cs054@code dir2]$ ls
sample.txt
[urk17cs054@code dir2]$
```

11. Change directory into dir2 directory

```
[urk17cs054@code dir2]$ cd
[urk17cs054@code ~]$ cd dir2
[urk17cs054@code dir2]$
```

12. Check whether the file sample.txt is present their

```
[urkl7cs054@code dir2]$ cat sample.txt
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/:/
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:999:998:User for polkitd:/:/sbin/nologin
```

13. Rename the file sample.txt to new.txt and check whether sample.txt is there or not?

```
[urkl7cs054@code dir2]$ touch new.txt
[urkl7cs054@code dir2]$ mv sample.txt new.txt
[urkl7cs054@code dir2]$ ls
new.txt
[urkl7cs054@code dir2]$
```

14. Remove the directory dir1

```
[urkl7cs054@code ~]$ rm -r dir1
[urkl7cs054@code ~]$ cd dir2
[urkl7cs054@code dir2]$ cd
[urkl7cs054@code ~]$ cd dir1
-bash: cd: dir1: No such file or directory
[urkl7cs054@code ~]$
```

15. Display last 3 lines of the file test1.txt

```
[urkl7cs054@code ~]$ tail -3 test1.txt
Selvin 07af508 Networking
Jervin 07af509 WirelessNetworks
Arun 07af510 GridComputing
[urkl7cs054@code ~]$
```

16. Display all the commands you have executed so far and save the list into a file named todayshistory.txt

```
[urkl7cs054@code ~]$ history > todayshistory.txt
[urkl7cs054@code ~]$ cat todayshistory.txt
44 vi overoperator5.cpp
45 g++ overoperator5.cpp
46 vi overoperator5.cpp
47 g++ overoperator5.cpp
48 vi overoperator5.cpp
49 g++ overoperator5.cpp
50 vi overoperator5.cpp
51 g++ overoperator5.cpp
52 vi overoperator5.cpp
53 g++ overoperator5.cpp
```

17. How many files are present under your home directory?

```
[urkl7cs054@code ~]$ ls -a | wc -l
178
[urkl7cs054@code ~]$
```

18. Perform sorting of three files and store the sorted file in the fourth file

```
[urkl7cs054@code ~]$ cat > f1.txt
Henry
Noel
Abi
[urkl7cs054@code ~]$ cat > f2.txt
Jacob
Sam
[urkl7cs054@code ~]$ cat > f3.txt
Lennon
[urkl7cs054@code ~]$ sort f1.txt f2.txt f3.txt > f4.txt
[urkl7cs054@code ~]$ cat f4.txt
Abi
Henry
Jacob
Lennon
Noel
Sam
[urkl7cs054@code ~]$
```

19. Change the permission of your newly created file such that the group users and others don't access any type of access.

```
[urkl7cs054@code ~]$ chmod 700 f4.txt
[urkl7cs054@code ~]$ ls -l f4.txt
-rwx----- 1 urkl7cs054 urkl7cs054 32 Dec 15 21:51 f4.txt
[urkl7cs054@code ~]$
```


20. Display the network status on the shell.

```
[urk17cs054@code ~]$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp      0      0 code.karunya.edu:hbc1  code.karunya.edu:48268  ESTABLISHED
tcp      0      0 code.karunya.edu:nfs    192.168.0.32:ftp-data   ESTABLISHED
tcp      0      0 code.karunya.edu:48584  code.karunya.edu:hbc1  ESTABLISHED
tcp      0      0 code.karunya.edu:48648  code.karunya.edu:hbc1  TIME_WAIT
tcp      0      0 code.karunya.edu:nfs    192.168.0.34:790       ESTABLISHED
tcp      0      0 code.karunya.edu:https  162.158.31.142:56210   ESTABLISHED
tcp      0      0 code.karunya.edu:hbc1   code.karunya.edu:48508  ESTABLISHED
tcp      0      0 code.karunya.edu:48422  code.karunya.edu:hbc1  ESTABLISHED
tcp      0      0 code.karunya.edu:47192  code.karunya.edu:hbc1  ESTABLISHED
tcp      0      0 code.karunya.edu:hbc1   code.karunya.edu:48452  ESTABLISHED
tcp      0      0 code.karunya.edu:https  162.158.154.218:43824  ESTABLISHED
tcp      0      0 code.karunya.edu:https  162.158.31.140:11722   ESTABLISHED
tcp      0      0 code.karunya.edu:36266  192.168.2.27:ldap      ESTABLISHED
tcp      0      0 code.karunya.edu:48508  code.karunya.edu:hbc1  ESTABLISHED
tcp      0      0 code.karunya.edu:48632  code.karunya.edu:hbc1  ESTABLISHED
tcp      0      0 code.karunya.edu:48656  code.karunya.edu:hbc1  TIME_WAIT
tcp      0      0 code.karunya.edu:https  172.68.146.135:37406   ESTABLISHED
tcp      0      0 code.karunya.edu:https  162.158.166.1:scotty-ft ESTABLISHED
tcp      0      0 code.karunya.edu:47700  code.karunya.edu:hbc1  ESTABLISHED
tcp      0      0 code.karunya.edu:48642  code.karunya.edu:hbc1  TIME_WAIT
```

21. Compare any two files and search for both common and exclusive features

```
[urk17cs054@code ~]$ diff f1.txt f2.txt
1c1,2
< Henry
---
> Jacob
> Sam
3d3
< Abi
[urk17cs054@code ~]$ comm f1.txt f2.txt
Henry
        Jacob
Noel
comm: file 1 is not in sorted order
Abi
        Sam
comm: file 2 is not in sorted order
        Noel
[urk17cs054@code ~]$
```

22. Display the user ID, process ID and parent process ID.

```
[urk17cs054@code ~]$ ps -f
UID          PID  PPID  C  STIME TTY          TIME CMD
urk17cs+  27167 27157   0  12:29 pts/0        00:00:00 -bash
urk17cs+  31046 27167   0  12:52 pts/0        00:00:00 ps -f
[urk17cs054@code ~]$
```

23. Report disk usages of file system.

```
[urk17cs054@code ~]$ df
Filesystem                1K-blocks      Used Available Use% Mounted on
devtmpfs                  3992636          0   3992636   0% /dev
tmpfs                     4004520          0   4004520   0% /dev/shm
tmpfs                     4004520  386308   3618212  10% /run
tmpfs                     4004520          0   4004520   0% /sys/fs/cgroup
/dev/mapper/centos_kitscode-root 68066844 3014208 65052636   5% /
/dev/sda1                 1942528   334256  1608272  18% /boot
/dev/mapper/centos_kitscode-home 24404336    32992  24371344   1% /home
/dev/mapper/centos_kitscode-data 97609148 26097068 71512080  27% /data
/dev/mapper/centos_kitscode-var 10004480 9310880   693600  94% /var
tmpfs                     800908          0   800908   0% /run/user/1010884305
tmpfs                     800908          0   800908   0% /run/user/1010882184
tmpfs                     800908          0   800908   0% /run/user/1010882167
tmpfs                     800908          0   800908   0% /run/user/1010883198
tmpfs                     800908          0   800908   0% /run/user/1010875257
tmpfs                     800908          0   800908   0% /run/user/1010875507
tmpfs                     800908          0   800908   0% /run/user/1010883044
[urk17cs054@code ~]$
```

24. Display the statistics of all ports connected to a network.

```
[urk17cs054@code ~]$ netstat -l
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp      0      0 0.0.0.0:nfs             0.0.0.0:*              LISTEN
tcp      0      0 0.0.0.0:46053           0.0.0.0:*              LISTEN
tcp      0      0 0.0.0.0:sunrpc          0.0.0.0:*              LISTEN
tcp      0      0 0.0.0.0:http            0.0.0.0:*              LISTEN
tcp      0      0 0.0.0.0:mountd            0.0.0.0:*              LISTEN
tcp      0      0 0.0.0.0:34067             0.0.0.0:*              LISTEN
tcp      0      0 0.0.0.0:ssh              0.0.0.0:*              LISTEN
tcp      0      0 0.0.0.0:hbc1              0.0.0.0:*              LISTEN
tcp      0      0 localhost:smtp          0.0.0.0:*              LISTEN
tcp      0      0 0.0.0.0:https             0.0.0.0:*              LISTEN
tcp6     0      0 [::]:nfs                [::]:*                 LISTEN
tcp6     0      0 [::]:sunrpc              [::]:*                 LISTEN
tcp6     0      0 [::]:http                [::]:*                 LISTEN
tcp6     0      0 [::]:mountd              [::]:*                 LISTEN
tcp6     0      0 [::]:ssh                 [::]:*                 LISTEN
tcp6     0      0 [::]:57431               [::]:*                 LISTEN
tcp6     0      0 localhost:smtp          [::]:*                 LISTEN
tcp6     0      0 [::]:https               [::]:*                 LISTEN
tcp6     0      0 [::]:39228               [::]:*                 LISTEN
udp      0      0 0.0.0.0:39547           0.0.0.0:*
udp      0      0 0.0.0.0:mountd          0.0.0.0:*
udp      0      0 0.0.0.0:sunrpc          0.0.0.0:*
udp      0      0 0.0.0.0:49440           0.0.0.0:*
udp      0      0 localhost:323           0.0.0.0:*
```

25. Display the uptime.

```
[urk17cs054@code ~]$ uptime
13:49:50 up 9 days,  2:09, 140 users,  load average: 0.00, 0.01, 0.05
[urk17cs054@code ~]$
```

26. Display the Julian day.

```
[urk17cs054@code ~]$ date
Fri Aug 21 13:05:45 IST 2020
[urk17cs054@code ~]$ date +%j
234
[urk17cs054@code ~]$
```

27. Check the IP information.

```
[urk17cs054@code ~]$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens32: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:50:56:93:66:93 brd ff:ff:ff:ff:ff:ff
    inet 192.168.0.29/24 brd 192.168.0.255 scope global noprefixroute ens32
        valid_lft forever preferred_lft forever
    inet6 fe80::1450:18ba:187f:1f02/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[urk17cs054@code ~]$
```

28. Display only the free space in the system.

```
[urk17cs054@code ~]$ df -h --output=source,avail
Filesystem                Avail
devtmpfs                  3.9G
tmpfs                     3.9G
tmpfs                     3.5G
tmpfs                     3.9G
/dev/mapper/centos_kitscode-root 63G
/dev/sda1                 1.6G
/dev/mapper/centos_kitscode-home 24G
/dev/mapper/centos_kitscode-data 69G
/dev/mapper/centos_kitscode-var 678M
tmpfs                     783M
tmpfs                     783M
tmpfs                     783M
tmpfs                     783M
tmpfs                     783M
tmpfs                     783M
tmpfs                     783M
tmpfs                     783M
tmpfs                     783M
[urk17cs054@code ~]$
```


29. Display the configuration information of your network.

```
[urk17cs054@code ~]$ netstat -nr
Kernel IP routing table
Destination      Gateway          Genmask         Flags   MSS Window  irtt Iface
0.0.0.0          192.168.0.254   0.0.0.0         UG      0 0        0 ens32
192.168.0.0      0.0.0.0         255.255.255.0   U       0 0        0 ens32
[urk17cs054@code ~]$
```

Results:

The linux commands are studied and executed.

Video Link:

https://youtu.be/4BCHxsD_xVw