LIUNX AND SHELL SCRIPTING-LABORATORY ASSIGNMENT – 1(G1)

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Course Title: Linux and Shell Scripting-Laboratory

Question-1: Move file1 from dir1 to dir2.

Firstly, we create a file using cat command and write somethings in the file.

Syntax: cat > filename

Then we make a directory using mkdir command then change the directory to root into dir2.

Syntax: mkdir directory name

Then move the file into directory use the following command after use the my command then use the ls command.

Syntax: mv filename directory name

```
File Edit View Terminal Go Help

[root@localhost root]# cat >file2

Hello Ma'am

I am Pranav Mishra

MCA G1

[root@localhost root]# mkdir dir2

[root@localhost root]# cd dir2

[root@localhost dir2]# ls

[root@localhost dir2]# cd ~

[root@localhost root]# mv file2 dir2

[root@localhost root]# cd dir2

[root@localhost root]# mv file2 dir2

[root@localhost dir2]# ls

file2

[root@localhost dir2]#
```

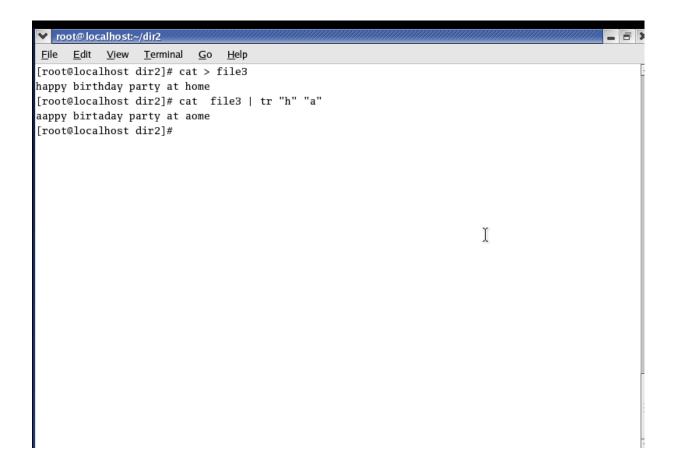
Question-2: Replace a letter 'h' to 'a'.

Firstly, we create a file using cat command and write somethings in the file.

Syntax: cat > filename

Then use the following cat command to replace a letter 'h' to 'a'.

Syntax: cat filename | tr "h" "a"



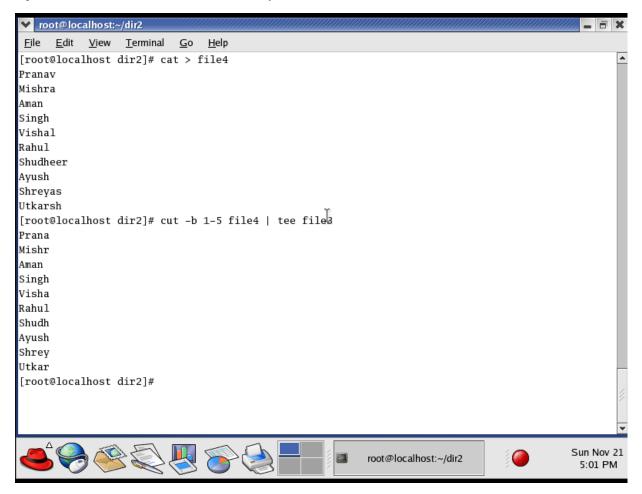
Question-3: Cut first 5 lines of file1 and paste it into file2.

Firstly, we create a file using cat command and write somethings in the file.

Syntax: cat>filename

Then use the following command Cut first 5 lines of file1 and paste it into file2.

Syntax: cut -b 1 -5 First filename | tee Second filename



Question-4: Get size of a file1.

Firstly, we create a file using cat command and write somethings in the file.

Syntax: cat>filename

Then use the ls -sh command to get size of a file1.

Syntax: Is -sh

```
[root@localhost root]# cat > file4
Pranav
Mishra
                                                                      I
MCA
G1
LPU
[root@localhost root]# ls -sh
total 136K
4.0K abc.txt
                       4.0K dir2
                                                 4.0K math.sh~
                                                                                    4.0K shell1.sh
                                                                      0 new4
                                                                      0 Pranav4
                                                                                    4.0K shell2.sh
4.0K anaconda-ks.cfg 0 duplicate
                                                 4.0K maths.sh
12K arc1.tar 4.0K Employe
4.0K arc2.tar.gz 4.0K evolution
                                                                   4.0K Pranav4~
                                                 4.OK mem
                                                                                      0 shell2.sh~
                                                 4.0 \hbox{K monday.sh} \qquad 4.0 \hbox{K Pranav5} \qquad \quad 4.0 \hbox{K shell.sh}
4.0K arc3.tar.bz2 4.0K file4
                                                 4.0K monday.sh~ 4.0K Pranav6
                                                                                       0 shell.sh~
                                                                   4.0K raj.sh 4.0K Untitled 1
4.0K raj.sh~ 4.0K Untitled 2
                                                    0 new1
   0 Ayush
                      16K install.log
   0 demo1
                      4.0K install.log.syslog
                                                    0 new2
4.0K dir1
                       4.0K math.sh
                                                    0 new3
                                                                   4.0K shell16.sh
[root@localhost root]#
```

Question-5: Create a group and add one new user in it.

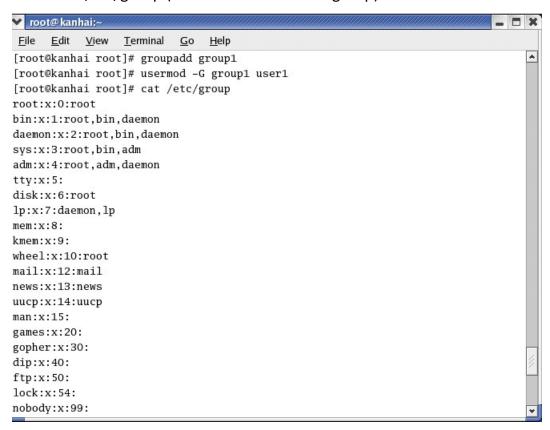
Firstly, we create a group using groupadd command and then create a user then use the following command.

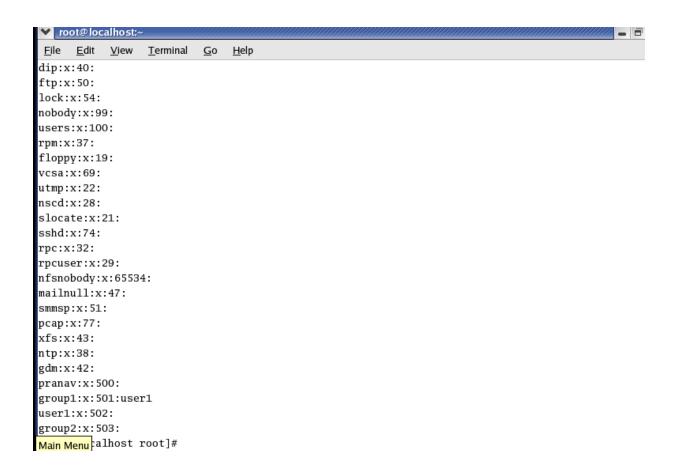
Syntax: groupadd group name (for create a group)

useradd user name (for create a user)

usermod -G group name user name

cat /etc/group (for check the user and group)

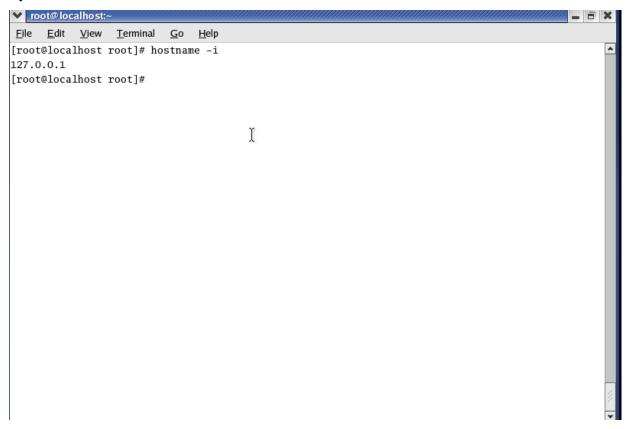




Question-6: Check the IP address of your machine.

To check the IP address of the machine, use the hostname -i command

Syntax: hostname -i



Question-7: Create a shortcut of dir1.

Firstly, we use the ls command to check all the file and directory

Syntax: Is

Then use mkdir to make a directory then use In -s for create a shortcut of directory and then use the Is -Ih to check the shortcut file.

Syntax: mkdir directory name (for make a directory)

In -s dir3 dir3_soft
Is -In

```
▼ root@localhost:~
<u>F</u>ile <u>E</u>dit <u>V</u>iew <u>T</u>erminal
[root@localhost root]# ls
abc.txt
                demo1
                           file4
                                                           new4
                                                                     raj.sh~
                                                                                 shell.sh~
anaconda-ks.cfg dir1
                           install.log
                                               monday.sh
                                                           Pranav4
                                                                     shell16.sh Untitled 1
arc1.tar dir2
                           install.log.syslog monday.sh~ Pranav4~ shell1.sh
                                                                                Untitled 2
arc2.tar.gz
                duplicate math.sh
                                               new1
                                                           Pranav5
                                                                     shell2.sh
arc3.tar.bz2
                Employe
                           math.sh~
                                               new2
                                                           Pranav6 shell2.sh~
                                                                     shell.sh
                evolution maths.sh
Ayush
                                              new3
                                                           raj.sh
[root@localhost root]# mkdir dir3
[root@localhost root]# ln -s dir3 dir3_soft
[root@localhost root]# ls -lh
total 140K
                                       22 Nov 18 15:52 abc.txt
-rw-r--r--
             1 root
-rw-r--r--
           1 root
                                     1.2K Oct 30 17:36 anaconda-ks.cfg
                        root
                                     10K Nov 10 15:23 arc1.tar
           1 root
-rw-r--r--
                        root
                                     110 Nov 10 15:24 arc2.tar.gz
             1 root
                        root
-rw-r--r--
                                      112 Nov 10 15:25 arc3.tar.bz2
-rw-r--r--
             1 root
                        root
                                                                          Ĭ
-rw-r--r--
             1 root
                        root
                                        0 Nov 1 16:10 Ayush
                                        0 Nov 8 16:53 demo1
-rw-r--r--
             1 root
                        root
                                     4.0K Nov 21 16:17 dir1
drwxr-xr-x
             3 root
                        root
                                     4.0K Nov 21 16:58 dir2
drwxr-xr-x
             2 root
                        root
                                     4.0K Nov 21 18:13 dir3
drwxr-xr-x
             2 root
                        root
                                        4 Nov 21 18:13 dir3_soft -> dir3
                        root
lrwxrwxrwx
             1 root
                                        O Nov 10 15:32 duplicate
                        root
-rw-r--r--
             1 root
                                      128 Nov 2 15:39 Employe
-rw-r--r--
             1 root
                        root
                                     4.0K Nov 1 17:02 evolution
drwx----
             4 root
                        root
```

Question-8: Sort content of file1 and store in file2.

Firstly, we create a file using cat command and write somethings in the file.

Syntax: cat > filename (for create a file)

Then use the sort command for sort the content of one file to another file.

Syntax: sort first filename | tee second filename

```
[root@localhost root]# cat > file6

Hello ma'am
I am Pranav Mishra
From DOCO9

MCA
[root@localhost root]# sort file6 | tee file5
From DOCO9

Hello ma'am
I am Pranav Mishra

MCA
```

Question-9: Change the default file permission of file2 to no execute permission to others.

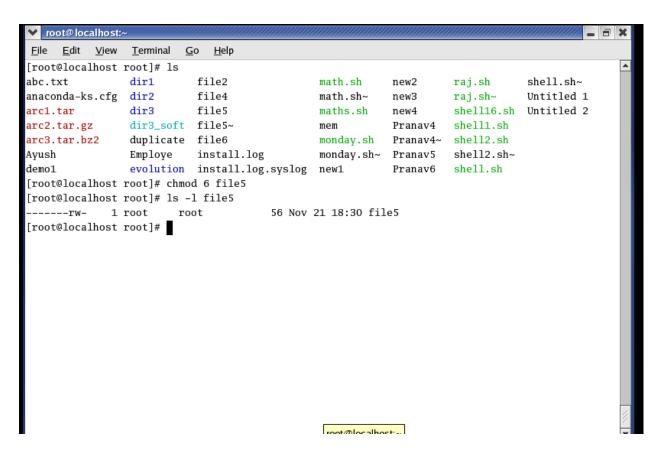
Firstly, we create a file using Is command to check all the file and directory.

Syntax: Is (for check all file and directory)

Then use the chmod command to change the default permission of any file and use the ls -l command to check the file permission.

Syntax: chmod 6 filename (for change the default permission of file)

Is -I filename (for check the permission of file)



Question-10: Write a command that will look for files with an extension "c", and has the occurrence of the string "apple" in it.

Firstly, we create a file using gedit command .c extension and then use the find ./ -name "*.c" | xargs grep -I "apple" for check the data of the fie.

Syntax: gedit filename with .c extension (for create .c extension) find ./ -name "*.c" | xargs grep -I "apple" (for check the data of the file)