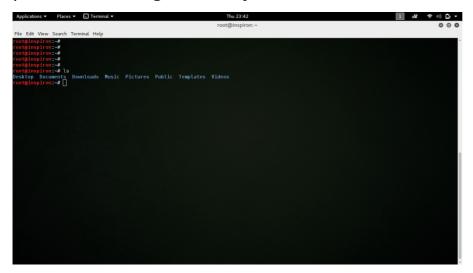
FOSS LAB EXPERIMENT NO: 1

Date: 15/2/2017

BASIC LINUX COMMANDS, DIRECTORY STRUCTURE AND OPERATIONS

LISTING DIRECTORIES:

Is: this command is used to list all the folders and files in the present working directory.



The options for Is command are

Is -I: long listing of current directory contents including their permissions.

Is -F: lists the executables and directories separately.

Is -a: lists the hidden directories as well.

CHANGING DIRECTORIES

cd: this command is used to change between directories

```
cd <directory name > - changes the directory

cd .. -changes to the parent directory

cd ~ -changes to the home directory

cd / -changes to the root directory
```

touch: this command is used to create a new file into the directory mkdir: this command is used to create a new directory into the present working directory

rm - this command removes a file

rmdir - this command removes an empty directory

rm -r -this removes a full directory

COPYING AND MOVING DIRECTORIES AND FILES

cp : this command is used to copy a file into a directory

cp -r : this option is used to copy a directory into another directory

mv : this is used to move a file into a directory. Also used to rename files and folders.

mv -r : this moves a directory and its subdirectories into another directory

mv -i : this is used to ask for confirmation before overwriting a file

```
Applications ▼ Places ▼ ∑ Terminal ▼
                                                                                          Fri 11:34
                                                                                                                                                                                   (I))
                                                                                       root@inspiron: ~
                                                                                                                                                                                     0 0 0
File Edit View Search Terminal Help
  oot@inspiron:~# touch txt
oot@inspiron:~# ls
esktop Documents Downloads Music Pictures Public Templates txt Videos
               n:~# mkdir a
n:~# ls
   Desktop Documents Downloads Music Pictures Public Templates txt Videos
ot<mark>@inspiron:~#</mark> cp txt a
   ot@inspiron:~# mv -i txt a
: overwrite 'a/txt'? y
   otginspiron:-# ls
Desktop Documents Downloads Music Pictures Public Templates Videos
            ron:~# mkdir b
ron:~# ls
   b Desktop Documents Downloads Husic Pictures Public Templates Videos ot@inspiron:-# mv b a
                 :~# ls
   Desktop Documents Downloads Music Pictures Public Templates Videos
             ron:~# cd a
ron:~/a# ls
   txt
otMinspiron:~/a# cd ...
             ron:~#
ron:~# rm -r a
                n:~# ls
```

HELP AND MAN

The help and man commands are used to get information about the built in commands in linux



OTHER COMMANDS

pwd : used to print the present working directory

passwd : used to change the users password

clear : clears the terminal screen

whoami :prints the currently logged in user

EXECUTING A FILE/SHELL SCRIPT

- → cd to the directory containing the file
- → make the file executable using chmod command
- → execute the file

```
File Edit View Search Terminal Help

root@inspiron:~#
root@inspiron:~#
root@inspiron:~# ls

Desktop Documents Downloads file.sh Music Pictures Public Templates Videos
root@inspiron:~#
root@inspiron:~# chmod +x file.sh
root@inspiron:~# ./file.sh

User name : root(Login name:root))
root@inspiron:~#
```

LINUX DIRECTORY HEIRARCHY

```
File Edit View Search Terminal Help
root@inspiron:/#
root@inspiron:/# cd /
root@inspiron:/# cd /
root@inspiron:/# ls
bin boot dev etc home initrd.img lib lost+found media mnt opt proc root run sbin srv sys tmr usr var vmlinuz
root@inspiron:/#
root@inspiron:/#
root@inspiron:/#
```

