NETWORKING & SYSTEM ADMINISTRATION LAB

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Roll No:54

Batch:B

Date:24-3-2022

Experiment No.: 1

Aim

Familiarization of the linux commands.

Procedure

1. pwd

This command is used to display the location of the current working directory.

Syntax: $ pwd

Output:

2.mkdir

This command is used to create a new directory under any directory.

Syntax: $ mkdir <directory name>

Output:

3. ls

This command is used to display a list of content of directory.

Syntax :- $ ls

Output :-

```
student@S55:~$ ls
 12pro.c             '2nd qn lab.o'      '<invalid path>.layout'
'1st program lab'    '3rd program lab'    java_error_in_pycharm_3298.log
'1st program lab.c'  '3rd program lab.c'  java_error_in_pycharm_4885.log
'1st program lab.o'  '3rd program lab.o'  Music
'1st qn of c lab'     6thpro.c            Pictures
'1st qn of c lab.c'   c                   Public
'1st qn of c lab.o'   Desktop             PycharmProjects
'2nd program lab'     Documents           snap
```

4. man

This command is used to display the user manual of any command that we can run on the terminal.

Syntax :- $ man <command name>

Output   :

```
student@S55:~$ man pwd
```

5. ls –l

This command is used to shows file or directory, size, modified date and time, file or folder name and owner of the file, and its permission.

Syntax :- $ ls –l

```
student@S55:~$ ls -l
total 624
-rw-rw-r-- 1 student student    359 Dec 20 09:43  12pro.c
-rwxrwxr-x 1 student student   8408 Nov 22 09:11 '1st program lab'
-rw-rw-r-- 1 student student    740 Nov 22 10:42 '1st program lab.c'
-rw-rw-r-- 1 student student   2624 Nov 22 09:11 '1st program lab.o'
-rwxrwxr-x 1 student student   8408 Oct  5 17:56 '1st qn of c lab'
-rw-rw-r-- 1 student student    398 Oct  5 17:56 '1st qn of c lab.c'
-rw-rw-r-- 1 student student   2376 Oct  5 17:56 '1st qn of c lab.o'
-rwxrwxr-x 1 student student   8408 Dec 20 10:22 '2nd program lab'
-rw-rw-r-- 1 student student    740 Nov 22 10:43 '2nd program lab.c'
-rw-rw-r-- 1 student student   2624 Dec 20 10:22 '2nd program lab.o'
-rwxrwxr-x 1 student student   8472 Oct  5 17:53 '2nd qn lab'
```

6. ls –r

This command is used to display files and directories in reverse order.

Syntax : $ls –r

Output :

```
student@S55:~$ ls -R
.:
 12pro.c              '2nd qn lab.o'       '<invalid path>.layout'
'1st program lab'     '3rd program lab'     java_error_in_pycharm_3298.log
'1st program lab.c'   '3rd program lab.c'   java_error_in_pycharm_4885.log
'1st program lab.o'   '3rd program lab.o'   Music
'1st qn of c lab'      6thpro.c             Pictures
'1st qn of c lab.c'    c                    Public
'1st qn of c lab.o'    Desktop              PycharmProjects
'2nd program lab'      Documents            snap
'2nd program lab.c'    Downloads            Templates
```

7. ls –a

This command is used to list all files including hidden files.

Syntax :- $ls –a

Output :-

```
student@S55:~$ ls -a
 .                   6thpro.c             java_error_in_pycharm_3298.log
 ..                  .bash_history        java_error_in_pycharm_4885.log
 12pro.c             .bash_logout         .local
'1st program lab'    .bashrc              .mozilla
'1st program lab.c'   c                   Music
'1st program lab.o'  .cache               .oracle_jre_usage
'1st qn of c lab'    .config              Pictures
'1st qn of c lab.c'  Desktop              .pki
'1st qn of c lab.o'  Documents            .profile
'2nd program lab'    Downloads            Public
'2nd program lab.c'  examples.desktop     PycharmProjects
```

8. ls –al

This command is used to

Syntax :- $ ls -al

Output :-

```
student@S55:~$ ls -al
total 704
drwxr-xr-x 26 student student   4096 Mar 24 14:29  .
drwxr-xr-x  6 root    root      4096 Jan 13 14:54  ..
-rw-rw-r--  1 student student    359 Dec 20 09:43  12pro.c
-rwxrwxr-x  1 student student   8408 Nov 22 09:11 '1st program lab'
-rw-rw-r--  1 student student    740 Nov 22 10:42 '1st program lab.c'
-rw-rw-r--  1 student student   2624 Nov 22 09:11 '1st program lab.o'
-rwxrwxr-x  1 student student   8408 Oct  5 17:56 '1st qn of c lab'
-rw-rw-r--  1 student student    398 Oct  5 17:56 '1st qn of c lab.c'
-rw-rw-r--  1 student student   2376 Oct  5 17:56 '1st qn of c lab.o'
-rwxrwxr-x  1 student student   8408 Dec 20 10:22 '2nd program lab'
-rw-rw-r--  1 student student    740 Nov 22 10:43 '2nd program lab.c'
-rw-rw-r--  1 student student   2624 Dec 20 10:22 '2nd program lab.o'
-rwxrwxr-x  1 student student   8472 Oct  5 17:53 '2nd qn lab'
```

9. ls –t

This command is used to display files in the last modified order.

Syntax :- $ ls –t

Output :-

```
student@S55:~$ ls -t
 vismaya                  '3rd program lab.c'  '1st qn of c lab.o'
 Downloads                '2nd program lab.c'  '1st qn of c lab.c'
 Desktop                  '1st program lab.c'  '2nd qn lab'
 Documents                '3rd program lab'    '2nd qn lab.o'
'2nd program lab'         '3rd program lab.o'  '2nd qn lab.c'
'2nd program lab.o'       '1st program lab'    '<invalid path>.layout'
```

10. cd

This command is used to change the current directory.

Syntax :- $ cd <directory name>

Output :

```
student@S55:~$ cd vismaya
student@S55:~/vismaya$ cd ..
```

11. cd ..

This command is used to move to the parent directory of current directory, or the directory one level up from the current directory.

Syntax :- $ cd ..

Output :-

```
student@S55:~/vismaya$ cd ..
student@S55:~$ cd -
/home/student/vismaya
```

12. cd –

This command is used to switch back to previous directory we were working earlier.

Syntax :- $ cd –

Output :-

```
student@S55:~$ cd -
/home/student/vismaya
```

13. cat > filename

This command is used to create a file and add contents to that file.

Syntax :- $ cat > filename.txt

Output :-

```
student@S55:~/vismaya$ cat > a.txt
virtualization
^Z
[5]+  Stopped                  cat > a.txt
```

14. cat>>filename

This command is used to add contents to an existing file.

Syntax :- $ cat >> filename.txt

Output :-

```
student@S55:~/vismaya$ cat >> a.txt
and containers
^Z
[6]+  Stopped                    cat >> a.txt
```

15. cat filename

This command is used to view the contents in the file.

Syntax :- $ cat filename.txt

Output :-

```
student@S55:~/vismaya$ cat a.txt
virtualization
and containers
```

16. cat filename1 > filename2

This command is used to copy the content from one file to another file.

Syntax :- $ cat filename1 > filename2

Output :-

```
student@S55:~/vismaya$ cat a.txt >b.txt
student@S55:~/vismaya$ cat b.txt
virtualization
and containers
student@S55:~/vismaya$ 
```