

Lab Assignment-01

ROLL: 2005535 | NAME: SAHIL SINGH | DATE: 04/01/22

Linux/Unix Commands

1. `$ cal` : To display calendar.
2. `$ pwd` : To print the path of current working directory.
3. `$ cd` : To navigate through the files and directories.
4. `$ time` : To display current time.
5. `$ date` : To display current date.
6. `$ man` : To open manual for help.
7. `$ whoami` : To see current terminal user in which we are working.
8. `$ cat 'filename'` : To display content of the file.
9. `$ cat > 'filename'` : To create a new file.
10. `$ ls` : To list out all files or folders available in a directory. By default, it shows the files in the current working directory.
11. `$ cat 'file1' >> 'file2'` : To append file1 to file2.
12. `$ history` : To see the history of all commands that have been run on the current working directory.
13. `$ ps` : To see all the processes that are currently running.

15. \$ head : shows the first 10 lines of a file.
16. \$ tail : shows the last 10 lines of a file.
17. \$ mv 'file1' to 'file2' : renames the file1 to file2
18. \$ wc 'file1' ~~to file2~~ : counts the number of words, lines, bytes and shows filename.
19. \$ mkdir 'directory name' : to create a directory.
20. \$ tree : to create a tree of all files and folders contained in a directory.
21. \$ echo 'string' : to print the string on the terminal
22. \$ cd 'file1' : to open a directory
23. \$ cp 'file1' to 'file2' : to copy contents of file1 to file2.
24. \$ vi 'filename' : to create a file.
25. \$ exit : to ~~create~~ exit the terminal

Lab Assignment-02

ROLL: 2005535 | NAME: SAHIL SINGH | DATE: 11/01/22

A) Create files and directories:

1. mkdir 2005535 (Directory created)
2. cd 2005535 (to go inside the directory)
3. mkdir KIIT (new directory created)
4. cd KIIT
5. mkdir SCE SEIVE SEE SNE SEICE
6. cd SCE
7. mkdir CSE IT CSSE CSCE
8. cd IT
9. touch info.txt first.c (to create empty text file)
10. cd..
11. cd..
12. cd SEE
13. mkdir M.Tech
14. cd M.Tech
15. Touch student
16. cd..
17. cd..
18. cd SEICE
19. mkdir ETC CE ECE
20. cd ETC
21. mkdir LIBRARY
22. cd..
23. cd..
24. cd..
25. cd..
26. ls (to create the base structure of directories and files)

B) Rename the file info.txt as ~~itshubdata.txt~~.

1. cd 2005535/KIIT/SCE/IT
2. mv info.txt ~~itshubdata.txt~~
3. cd..
4. cd..
5. cd..
6. cd..

C) Copy the file first.c into the directory CE with the same name.

1. cd u/2005535/KIIT/SCE/IT
2. cd first.c u/2005535/KIIT/~~SEE~~SECE/CE
3. cd..
4. cd..

D) Copy the file first.c into the directory SME with a new name as hello.c

1. cd u/2005535/KIIT/SCE/IT
2. cd first.c u/2005535/KIIT/SME
3. cd..
4. cd..
5. cd SME
6. mv first.c hello.c
7. cd..
8. cd..
9. cd..

E) Transfer the file student into the directory SCIVE and check whether transferred or not.

1. `cd ~/2005535/KIIT/SEE/UTECH`
2. `mv student ~/2005535/KIIT/SCIVE`
3. `cd /`

F) Rename CSSE to SYSTEM ENGG

1. `cd ~/2005535/KIIT/SCE`
2. `mv CSSE SYSTEM ENGG`
3. `cd /`

G) Delete ECE directory

1. `cd ~/2005535/KIIT/SETCE`
2. `rm -r ECE`
3. `cd /`

H) Delete SEE directory

1. `cd ~/2005535/KIIT`
2. `rm -r SEE`
3. `cd /`

I) Copy IT directory to LIBRARY

1. `cd ~/2005535/KIIT/SCE`
2. `cd -r IT ~/2005535/KIIT/SETCE/ETC/LIBRARY`
3. `cd /`

Created Directory

```
ss2402@heatcliff24:~/os_lab/lab_1$ tree 2005535
2005535
├── KIIT
│   ├── SCE
│   │   ├── CSCE
│   │   ├── CSE
│   │   ├── CSSE
│   │   └── IT
│   │       ├── first.c
│   │       └── info.txt
│   ├── SCIVE
│   ├── SEE
│   │   └── M.Tech
│   │       └── student
│   ├── SETCE
│   │   ├── CE
│   │   ├── ECE
│   │   └── ETC
│   │       └── LIBRARY
│   └── SME
15 directories, 3 files
ss2402@heatcliff24:~/os_lab/lab_1$
```

Final Directory

```
ss2402@heatcliff24:~/os_lab/lab_1$ tree 2005535
2005535
├── KIIT
│   ├── SCE
│   │   ├── CSCE
│   │   ├── CSE
│   │   ├── IT
│   │   │   ├── first.c
│   │   │   └── itsstudentdata.txt
│   │   └── SYSTEM ENGG
│   ├── SCIVE
│   │   └── student
│   ├── SETCE
│   │   ├── CE
│   │   │   └── first.c
│   │   ├── ETC
│   │   │   └── LIBRARY
│   │   │       └── IT
│   │   │           ├── first.c
│   │   │           └── itsstudentdata.txt
│   └── SME
│       └── hello.c
13 directories, 7 files
ss2402@heatcliff24:~/os_lab/lab_1$
```
