Lab Assignment-01

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

Linux/Unix Commands

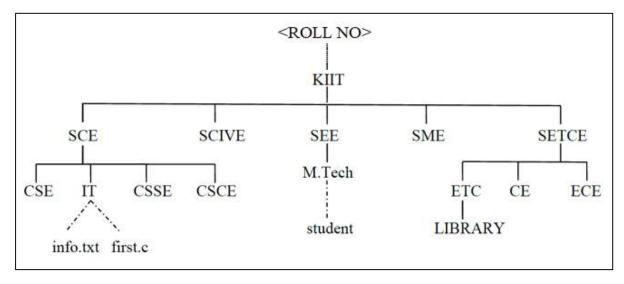
1. st. cal: To display calendor.
2. 4 pool : To pool the fath of current working directory.
3. 4 cd: To navigate through the files and directaring.
4. deline: To desplay Correct time.
5. 4 date: To display Current date.
6. \$ man: To afen manual for help.
7. \$ whoani : To see current terminal user an which we
7. \$ whoans: To see current terminal user an which we are working.
9. \$ cat 'filename': To display content of the file.
10. \$ cat > 'filename': To create a men file.
11. \$ le: To list out all files or folders available in a directory. By default, It shows the file in the Current working directory.
12. \$ cat 'file!' >> 'file?' To append file! to file2.
13. \$ history: To see the history of all command that have been ran on the current working directory
14. \$ bs: To see all the perocesses that are currently orming.

15. 4 head: shows the first 10 lines of a file.
16. I tail: shows the last 10 lines of a file.
17. \$ mv 'file!' to 'file?': remanus the files to file?
18. \$ wc'file! # County the number of words, lives, bytes and shows file name.
19. \$ wkdir 'directory name': to create a directory.
20. \$ tree: to create a bree of all files and foldows
21. \$ echo 'string': to print the string on the torninal
22. \$ cd 'file!': to open a directory
33. & cf 'file!' to 'file2': to copy contents of file to file2
24. \$ vi 'filename': to couate a file.
25. & exit: to create exit the terminal

Lab Assignment-02

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

QUES 1: A) Create the file names under the directories as mentioned in the figure and write some relevant data into the files.



N.B. The names under solid lines are assumed as directories and dotted lines as file names. SOLUTION:

```
$ mkdir 2005535
$ cd 2005535
/2005535$ mkdir KIIT
/2005535$ cd KIIT
/2005535/KIIT$ mkdir SCE SCIVE SEE SME SETCE
/2005535/KIIT$ cd SCE
/2005535/KIIT/SCE$ mkdir CSE IT CSSE CSCE
/2005535/KIIT/SCE$ cd IT
/2005535/KIIT/SCE/IT$ cat>info.txt
This is a test file for Assignment 1
File name is info.txt
^C
/2005535/KIIT/SCE/IT$ cat>first.c
#include <stdio.h>
void main()
{
    printf("First.c file");
}
^C
```

```
/2005535/KIIT/SCE/IT$ cd ..
/2005535/KIIT/SCE$ cd ...
/2005535/KIIT$ cd SEE
/2005535/KIIT/SEE$ mkdir M.Tech
/2005535/KIIT/SEE$ cd M.Tech
/2005535/KIIT/SEE/M.Tech$ cat>student
Test file
File name is student
^C
/2005535/KIIT/SEE/M.Tech$ cd ..
/2005535/KIIT/SEE$ cd ..
/2005535/KIIT/SCE$ cd ...
/2005535/KIIT$ cd SETCE
/2005535/KIIT/SETCE$ mkdir ETC CE ECE
/2005535/KIIT/SETCE$ cd ETC
/2005535/KIIT/SETCE/ETC$ mkdir LIBRARY
```

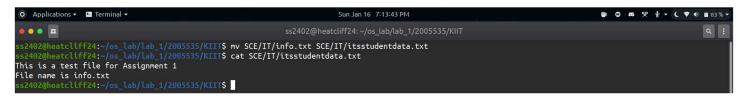
```
• • •
                                                                                                                                                                                                                                                                                                                                                                                                                                 Q :
 ss2402@heatcliff24:~/os_lab/lab_1$ mkdir 2005535
ss2402@heatcliff24:~/os_lab/lab_1$ cd 2005535
ss2402@heatcliff24:~/os_lab/lab_1/2005535 mkdir KIIT
ss2402@heatcliff24:~/os_lab/lab_1/2005535 cd KIIT
ss2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ mkdir SCE SCIVE SEE SME SETCE
ss2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ cd SCE
ss2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT/SCE$ mkdir CSE IT CSSE CSCE
ss2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT/SCE$ cd IT
ss2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT/SCE/IT$ cat>info.txt
This is a test file for Assignment 1
 This is a test file for Assignment 1
File name is info.txt
                      eatcliff24:~/os_lab/lab_1/2005535/KIIT/SCE/IT$ cat>first.c
#include <stdio.h>
void main()
          printf("First.c file");
  Ssz402@heatcliff24:~/os_lab/lab_1/2005535/KIIT/SCE/IT$ cd ...
ssz402@heatcliff24:~/os_lab/lab_1/2005535/KIIT/SCE$ cd ...
ssz402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ cd SEE
ssz402@heatcliff24:~/os_lab/lab_1/2005535/KIIT/SEE$ mkdir M.Tech
ssz402@heatcliff24:~/os_lab/lab_1/2005535/KIIT/SEE$ cd M.Tech
ssz402@heatcliff24:~/os_lab/lab_1/2005535/KIIT/SEE$ cd M.Tech
ssz402@heatcliff24:~/os_lab/lab_1/2005535/KIIT/SEE/M.Tech$ cat>student
File name is student
  bash: cd: SETCE: No such file or directory
ss2402@heatcliff24:-/os_lab/lab_1/2005535$ cd KIIT
ss2402@heatcliff24:-/os_lab/lab_1/2005535/KIIT/SETCE$ mkdir ETC CE ECE
ss2402@heatcliff24:-/os_lab/lab_1/2005535/KIIT/SETCE$ mkdir ETC CE ECE
ss2402@heatcliff24:-/os_lab/lab_1/2005535/KIIT/SETCE$ cd ETC
cs2402@heatcliff24:-/os_lab/lab_1/2005535/KIIT/SETCE$ cd ETC
              2@heatcliff24:~/os_lab/lab_1/2005535/KIIT/SETCE/ETC$ mkdir LIBRARY
```

B) Rename the file info.txt as itstudentsdata.txt.

SOLUTION:

```
/2005535/KIIT$ mv SCE/IT/info.txt SCE/IT/itsstudentdata.txt
/2005535/KIIT$ cat SCE/IT/itsstudentdata.txt
This is a test file for Assignment 1
```

File name is info.txt



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

SOLUTION:

```
/2005535/KIIT$ cp SCE/IT/first.c SETCE/CE/
/2005535/KIIT$ cat SETCE/CE/first.c
#include <stdio.h>
void main()
{
    printf("First.c file");
```

```
}
                                    $ cp SCE/IT/first.c SETCE/CE/
        otcliff24:~/os_lab/lab_1/2005535/KIIT$ cat SETCE/CE/first.c
#include <stdio.h>
void main()
   printf("First.c file");
  2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$
D) Copy the file first.c into the directory SME with a new name as hello.c.
SOLUTION:
/2005535/KIIT$ cp SCE/IT/first.c SME/hello.c
/2005535/KIIT$ cat SME/hello.c
#include <stdio.h>
void main()
{
     printf("First.c file");
}
            F24:~/os_lab/lab_1/2005535/KIIT$ cp SCE/IT/first.c SME/hello.c
F24:~/os_lab/lab_1/2005535/KIIT$ cat SME/hello.c
#include <stdio.h>
void main()
   printf("First.c file");
E) Transfer the file student into the directory SCIVE and check whether transferred or not.
SOLUTION:
/2005535/KIIT$ mv SEE/M.Tech/student SCIVE/
/2005535/KIIT$ 1s SCIVE
student
/2005535/KIIT$ cat SCIVE/student
Test file
File name is student
    2@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ mv SEE/M.Tech/student SCIVE/
2@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ ls SCIVE
       eatcliff24:~/os_lab/lab_1/2005535/KIIT$ cat SCIVE/student
Test file
File name is student
 s2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$
F) Rename CSSE to SYSTEM ENGG
SOLUTION:
/2005535/KIIT$ 1s SCE
 CSCE CSE CSSE IT
```

```
/2005535/KIIT$ mv SCE/CSSE SCE/'SYSTEM ENGG'
/2005535/KIIT$ ls SCE
 CSCE CSE
                     IT 'SYSTEM ENGG'
      heatcliff24:~/os_lab/lab_1/2005535/KIIT$ ls SCE
 SCE CSE CSSE IT

s2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ mv SCE/CSSE SCE/'SYSTEM ENGG'
s2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ ls SCE

CSCE CSE IT 'SYSTEM ENGG'
s2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$
G) Delete ECE directory.
SOLUTION:
/2005535/KIIT$ rmdir SETCE/ECE
/2005535/KIIT$ ls SETCE/ECE
ls: cannot access 'SETCE/ECE': No such file or directory
/2005535/KIIT$ 1s SETCE
CE ETC
 ls: cannot access 'SETCE/ECE': No such file or directory
ss2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ ls SETCE
        eatcliff24:~/os lab/lab 1/2005535/KIIT$
H) Delete SEE directory.
SOLUTION:
/2005535/KIIT$ ls
SCE SCIVE SEE SETCE SME
/2005535/KIIT$ rm -r SEE
/2005535/KIIT$ 1s SEE
ls: cannot access 'SEE': No such file or directory
/2005535/KIIT$ ls
SCE SCIVE SETCE SME
 CE SCIVE SEE SETCE SME

s2402@heatcliff24:~/os_lab/lab_1/2005535/KIII$ rm -r SEE

=7407@heatcliff24:~/os_lab/lab_1/2005535/KIII$ ls SEE
ls: cannot access 'SEE': No such file or directory
 ss2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ ls
CE SCIVE SETCE SME
       heatcliff24:~/os_lab/lab_1/2005535/KIIT$
I) Copy IT directory to LIBRARY
SOLUTION:
/2005535/KIIT$ cp -r SCE/IT SETCE/ETC/LIBRARY
```

/2005535/KIIT\$ ls SETCE/ETC/LIBRARY

/2005535/KIIT\$ tree SETCE

```
ss2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ cp -r SCE/IT SETCE/ETC/LIBRARY
ss2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ ls SETCE/ETC/LIBRARY

IT

SS2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$ tree SETCE

ETC

LIBRARY

IT

first.c

itsstudentdata.txt

4 directories, 3 files
ss2402@heatcliff24:~/os_lab/lab_1/2005535/KIIT$
```

Final Directory

```
S2402@heatcliff24:~/os_lab/lab_1$ tree 2005535

KIII

SCE

CSCE

CSCE

If first.c

itsstudentdata.txt

SETCE

First.c

ETC

LIBRARY

If first.c

itsstudentdata.txt

SME

hello.c

13 directories, 7 files

s2402@heatcliff24:~/os_lab/lab_1$
```