

LAB REPORT

COURSE TITLE : Operating Systems Lab

COURSE CODE : CSE 210

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SUBMITTED TO

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SECTION: 1

PROGRAM: B.Sc. Engg. in CSE

Operating Systems Lab

1. Display the path of your current directory

```
pwd

Shadowshahriar@DESKTOP-DOUU8G4:~

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

shadowshahriar@DESKTOP-DOUU8G4:~$ pwd
/home/shadowshahriar
shadowshahriar@DESKTOP-DOUU8G4:~$
```

Figure - 1.1. Retrieving the present working directory using the pwd command.

2. Create a new directory called **LabFiles** in your home directory

```
mkdir LabFiles
```

3. Navigate into LabFiles directory

```
cd LabFiles
```

- 4. Create three new directories inside LabFiles
 - 🗁 FileDir1
 - 🗁 FileDir2
 - 🗁 FileDir3

mkdir FileDir1 FileDir2 FileDir3

Figure - 1.2. Creating directories using the mkdir command.

5. Create three new files inside the new directories

```
file1.txt inside  FileDir1
file2.txt inside  FileDir2
file3.txt inside  FileDir3
```

```
touch FileDir1/file1.txt
touch FileDir2/file2.txt
touch FileDir3/file3.txt
```

6. List the files in the LabFiles directory

```
ls
```

```
To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

shadowshahriar@DESKTOP-D0UU8G4:~$ pwd

/home/shadowshahriar

shadowshahriar@DESKTOP-D0UU8G4:~$ mkdir LabFiles

shadowshahriar@DESKTOP-D0UU8G4:~$ cd LabFiles

shadowshahriar@DESKTOP-D0UU8G4:~$ mkdir FileDir1 FileDir2 FileDir3

shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ touch FileDir1/file1.txt

shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ touch FileDir2/file2.txt

shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ touch FileDir3/file3.txt

shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ ls

FileDir1 FileDir2 FileDir3

shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$
```

Figure - 1.3. Listing the items in the LabFiles directory.

7. Add some contents in the file1.txt and file2.txt file using the terminal

```
nano FileDir1/file1.txt
nano FileDir2/file2.txt
```

Figure - 1.4. Using nano to edit the text files directly from the terminal.



Figure - 1.5. Editing file1.txt

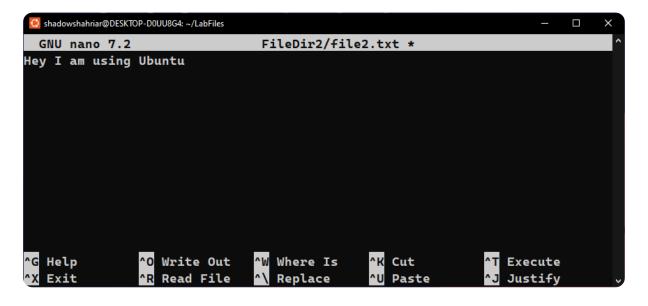


Figure - 1.6. Editing file2.txt

8. Display the contents of file1.txt

```
cat FileDir1/file1.txt
```

Figure - 1.7. Retrieving the contents of file1.txt

9. Make a copy of file1.txt called backup.txt in LabFiles directory

```
cp FileDir1/file1.txt backup.txt
```

```
FileDir1 FileDir2 FileDir3
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ nano FileDir1/file1.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ nano FileDir2/file2.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ cat FileDir1/file1.txt
Hello World
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ cp FileDir1/file1.txt backup.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ ls
FileDir1 FileDir2 FileDir3 backup.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$
```

Figure - 1.8. Copying file1.txt as backup.txt in the LabFiles directory.

10. Rename file2.txt to newfile.txt

mv file2.txt newfile.txt

Figure - 1.9. Renaming file2.txt to newfile.txt

11. Move newfile.txt to the FileDir3 changing its name to newfile2.txt

```
mv newfile.txt ../FileDir3/newfile2.txt
```

12. Remove file1.txt from the FileDir1 directory

```
rm file1.txt
```

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
shadowshahriar@DESKTOP-D0UU8G4:~$ pwd
/home/shadowshahriar
shadowshahriar@DESKTOP-D0UU8G4:~$ mkdir LabFiles
shadowshahriar@DESKTOP-D0UU8G4:~$ cd LabFiles
shadowshahriar@DESKTOP-DOUU8G4:~/LabFiles$ mkdir FileDir1 FileDir2 FileDir3 shadowshahriar@DESKTOP-DOUU8G4:~/LabFiles$ touch FileDir1/file1.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ touch FileDir2/file2.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ touch FileDir3/file3.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ ls
FileDir1 FileDir2 FileDir3
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ nano FileDir1/file1.txt
shadowshahriar@DESKTOP-DOUU8G4:~/LabFiles$ nano FileDir2/file2.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ cat FileDir1/file1.txt
Hello World
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ cp FileDir1/file1.txt backup.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ ls
FileDir1 FileDir2 FileDir3 backup.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles/FileDir2$ mv file2.txt newfile.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles/FileDir2$ ls
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles/FileDir2$ mv newfile.txt ../FileDir3/newfile2.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles/FileDir2$ cd .
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles$ cd FileDir3
shadowshahriar@DESKTOP-DOUU8G4:~/LabFiles/FileDir3$ ls
file3.txt newfile2.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles/FileDir3$ cd ../FileDir1
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles/FileDir1$ ls
file1.txt
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles/FileDir1$ rm file1.txt
shadowshahriar@DESKTOP-DOUU8G4:~/LabFiles/FileDir1$ ls
shadowshahriar@DESKTOP-D0UU8G4:~/LabFiles/FileDir1$
```

Figure - 1.10. All of the commands that were used to complete tasks 1-20