Fatima Jinnah Women University

Department of Software Engineering

LAB 3

Name: Raifa Khalid

Reg. no: 2020-BSE-024

Section: A

Semester: Third

Course: Operating System (LAB)

TASK 01

Create file name students.txt, gstudent.txt, pgstudents. Enter students' names in gstudent.txt and pgstudent.txt. Now create directory having name OSLAB and copy all files to this directory. Now append the file students.txt with first five sorted names from pstudent.txt and last five sorted names from gstudent.txt. Then show the contents of sorted names from file students.txt. Change the permissions of file students.txt read only and both other files read and execute only.

- Create file name students.txt, gstudent.txt, pgstudents. Enter students' names in gstudent.txt and pgstudent.txt. Now create directory having name OSLAB and copy all files to this directory.

```
raifa@ubuntu:~$ pwd
/home/raifa
raifa@ubuntu:~$ cat >students.txt
raifa@ubuntu:~$ cat >gstudents.txt
raifa@ubuntu:~$ cat >pgstudents.txt
raifa@ubuntu:~$ cat >gstudents.txt
zainab
fatima
laiba
areeba
asma
rafia
afia
raifa@ubuntu:~$ cat >pgstudents.txt
saima
sara
arfa
amina
meerub
rida
tooba
raifa@ubuntu:~$ mkdir OSLAB
raifa@ubuntu:~$ cp /home/raifa/students.txt /home/raifa/OSLAB
raifa@ubuntu:~$ cp /home/raifa/gstudents.txt /home/raifa/OSLAB
raifa@ubuntu:~$ cp /home/raifa/pgstudents.txt /home/raifa/OSLAB
```

- Now append the file students.txt with first five sorted names from pstudent.txt and last five sorted names from gstudent.txt. Then show the contents of sorted names from file students.txt.

```
raifa@ubuntu:~$ cd OSLAB
raifa@ubuntu:~/OSLAB$ sort <pgstudents.txt>students.txt
raifa@ubuntu:~/OSLAB$
raifa@ubuntu:~/OSLAB$ head -n5 students.txt
amina
arfa
meerub
rida
saima
raifa@ubuntu:~/OSLAB$ sort <gstudents.txt>students.txt
raifa@ubuntu:~/OSLAB$ tail -n5 students.txt
asma
fatima
laiba
rafia
zainab
```

- Change the permissions of file students.txt read only and both other files read and execute only.

```
raifa@ubuntu:~/OSLAB$ chmod 444 students.txt
raifa@ubuntu:~/OSLAB$ chmod 555 gstudents.txt
raifa@ubuntu:~/OSLAB$ chmod 555 pgstudents.txt
raifa@ubuntu:~/OSLAB$ ls -l
total 12
-r-xr-xr-x 1 raifa raifa 43 Oct 22 06:28 gstudents.txt
-r-xr-xr-x 1 raifa raifa 40 Oct 22 06:28 pgstudents.txt
-r--r--r-- 1 raifa raifa 43 Oct 22 06:46 students.txt
raifa@ubuntu:~/OSLAB$
```

TASK 02

Define variable x and y with value 20 and 30 and print it on screen, then sum, subtract, divide these numbers, and print it on the screen.

```
raifa@ubuntu:~$ x=20
raifa@ubuntu:~$ y=30
raifa@ubuntu:~$ echo $x
20
raifa@ubuntu:~$ echo $y
30
raifa@ubuntu:~$ expr 20+30
20+30
raifa@ubuntu:~$ expr 20-30
20-30
raifa@ubuntu:~$ expr 20/30
20/30
```