



Name :Rabia batool

Roll no:2022_BSE_052

LAB 3

Submitted to :

Sir shehzad

TASK 1

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.

```
Debian
root@DESKTOP-5LTQKNI:~# touch student1.txt
root@DESKTOP-5LTQKNI:~# touch gstudent1.txt
root@DESKTOP-5LTQKNI:~# touch pgstudents1.txt
root@DESKTOP-5LTQKNI:~# ls
cap  file  file3  fire  gg      gstudent.txt  oslab  pgstudents1.txt  student.txt  text
dir2 file1  file4  First gstudent     lab       OSlab  rr              student.txt  text.txt
dir4 file2  file.txt FIRST gstudent1.txt labs      pgstudent student1.txt   test.txt    ww
root@DESKTOP-5LTQKNI:~#
```

```

root@DESKTOP-5LTQKNI:~# cat > gstudent1.txt
sawaira
rabia
hafsahroot@DESKTOP-5LTQKNI:~# cat > pgstudents1.txt
sobia
saba
arooj
root@DESKTOP-5LTQKNI:~# ls
cap  file  file3  fire  gg          gstudent.txt  oslab  pgstudents1.txt  student.txt  text
dir2 file1  file4  First gstudent    lab          OSlab  rr              student.txt  text.txt
dir4 file2  file.txt FIRST gstudent1.txt labs        pgstudent student1.txt   test.txt    ww
root@DESKTOP-5LTQKNI:~#

```

```

root@DESKTOP-5LTQKNI:~# mkdir OSLAB
root@DESKTOP-5LTQKNI:~# cp student1.txt OSLAB
root@DESKTOP-5LTQKNI:~# LS
-bash: LS: command not found
root@DESKTOP-5LTQKNI:~# ls
123  file  file4  FIRST          gstudent.txt  oslab  pgstudents1.txt  student1.txt  text
cap  file1 file.txt gg            hafsah        OSlab  q              student.txt   text.txt
dir2 file2  fire   gstudent      lab          OSLAB  qwerty.txt     student.txt   ww
dir4 file3  First  gstudent1.txt labs        pgstudent rr             test.txt
root@DESKTOP-5LTQKNI:~# cp gstudent1.txt OSLAB
root@DESKTOP-5LTQKNI:~# cp pgstudents1.txt OSLAB
root@DESKTOP-5LTQKNI:~# ls
123  file  file4  FIRST          gstudent.txt  oslab  pgstudents1.txt  student1.txt  text
cap  file1 file.txt gg            hafsah        OSlab  q              student.txt   text.txt
dir2 file2  fire   gstudent      lab          OSLAB  qwerty.txt     student.txt   ww
dir4 file3  First  gstudent1.txt labs        pgstudent rr             test.txt
root@DESKTOP-5LTQKNI:~#


```

```

root@DESKTOP-5LTQKNI:~# sort <gstudent1.txt>gstudent1sort.txt
root@DESKTOP-5LTQKNI:~# cat gstudent1sort.txt
hafsah
rabia
sawaira
root@DESKTOP-5LTQKNI:~# sort <pgstudents1.txt>pgstudents1sort.txt
root@DESKTOP-5LTQKNI:~# cat pgstudents1sort.txt
arooj
saba
sobia
root@DESKTOP-5LTQKNI:~#

```

```
sobia
root@DESKTOP-5LTQKNI:~# head -n3 pgstudents1sort.txt>student1.txt
root@DESKTOP-5LTQKNI:~# tail -n3 gstudent1sort.txt>>student1.txt
root@DESKTOP-5LTQKNI:~# cat student1.txt
arooj
saba
sobia
hafsa
rabia
sawaira
root@DESKTOP-5LTQKNI:~#
```

 Debian

```
root@DESKTOP-5LTQKNI:~# chmod 555 gstudent1.txt
root@DESKTOP-5LTQKNI:~# chmod 555 pgstudents1.txt
root@DESKTOP-5LTQKNI:~# ls -l
total 0
-rw-r--r-- 1 root root 0 Oct 16 14:53 123
-rw-r--r-- 1 root root 52 Oct 16 14:35 cap
drwxr-xr-x 1 root root 4096 Oct 9 14:32 dir2
drwxr-xr-x 1 root root 4096 Oct 9 14:38 dir4
drwxr-xr-x 1 root root 4096 Oct 10 11:59 file
-rw-r--r-- 1 root root 170 Oct 16 14:19 file1
-rw-r--r-- 1 root root 10 Oct 16 14:07 file2
-rw-r--r-- 1 root root 20 Oct 9 14:40 file3
-rw-r--r-- 1 root root 0 Oct 9 14:38 file4
-rw-r--r-- 1 root root 20 Oct 9 15:28 file.txt
-rw-r--r-- 1 root root 52 Oct 16 14:32 fire
drwxr-xr-x 1 root root 4096 Oct 10 12:47 First
drwxr-xr-x 1 root root 4096 Oct 10 11:52 FIRST
-rw-r--r-- 1 root root 11 Oct 10 12:56 gg
-r-x----- 1 root root 35 Oct 16 10:35 gstudent
-rw-r--r-- 1 root root 21 Oct 16 15:01 gstudent1sort.txt
-r-xr-xr-x 1 root root 20 Oct 16 14:43 gstudent1.txt
-rw-r--r-- 1 root root 13 Oct 16 10:21 gstudent.txt
drwxr-xr-x 1 root root 4096 Oct 16 14:49 hafsa
-rw-r--r-- 1 root root 24 Oct 16 09:39 lab
drwxr-xr-x 1 root root 4096 Oct 10 11:55 labs
drwxr-xr-x 1 root root 4096 Oct 16 09:54 oslab
drwxr-xr-x 1 root root 4096 Oct 16 10:29 OSlab
drwxr-xr-x 1 root root 4096 Oct 16 14:58 OSLAB
-r-x----- 1 root root 35 Oct 16 10:35 pgstudent
-rw-r--r-- 1 root root 17 Oct 16 15:04 pgstudents1sort.txt
-r-xr-xr-x 1 root root 17 Oct 16 14:44 pgstudents1.txt
drwxr-xr-x 1 root root 4096 Oct 16 14:55 q
-rw-r--r-- 1 root root 0 Oct 16 14:48 qwerty.txt
-rw-r--r-- 1 root root 11 Oct 10 12:54 rr
-r--r--r-- 1 root root 38 Oct 16 15:07 student1.txt
-rw-r--r-- 1 root root 0 Oct 16 09:50 student.txt
-r----- 1 root root 83 Oct 16 10:51 student.txt
-rw-r--r-- 1 root root 20 Oct 9 14:06 test.txt
-rw-r--r-- 1 root root 0 Oct 9 14:18 text
-rw-r--r-- 1 root root 0 Oct 9 15:28 text.txt
-rw-r--r-- 1 root root 0 Oct 10 12:53 ww
root@DESKTOP-5LTQKNI:~#
```

Task #2

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.

```
Debian
root@DESKTOP-5LTQKNI:~# x=20
root@DESKTOP-5LTQKNI:~# y=30
root@DESKTOP-5LTQKNI:~# echo $x
20
root@DESKTOP-5LTQKNI:~# echo $y
30
root@DESKTOP-5LTQKNI:~# expr $x + $y
50
root@DESKTOP-5LTQKNI:~# expr $x - $y
-10
root@DESKTOP-5LTQKNI:~# expr $x / $y
0
root@DESKTOP-5LTQKNI:~# expr $y / $x
1
root@DESKTOP-5LTQKNI:~#
```