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Subject: Operating System Lab#05

Task1

Task2

Task3

Task4

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5$ cat>students.txt
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5$ cat>pstudent.txt
Zohaib
Waqas
Mussab
Ahmed
Charles
Bashir
Naqqash
Kumail
Ali
pyush
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5$ cat>fstudent.txt
John
Carlos
Naeem
Amjad
Shakir
Zahid
Tahir
Wajid
Sajid
Nayyar
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5$ mkdir Riphah
```

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5$ cp students.txt pstudent.txt
 fstudent.txt Riphah/
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5$ cd Riphah/
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ sort<pstudent.txt> so
rtedlist1
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ head -n5 sortedlist1
> temp1
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ cat temp1
Ahmed
Ali
Bashir
Charles
Kumail
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ sort<fstudent.txt>sor
tedlist2
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ tail -n5 sortedlist2>
 temp2
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ cat temp2
Sajid
Shakir
Tahir
Wajid
Zahid
```

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ cat temp1 temp2>> stu
dents.txt
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ cat students.txt
Ahmed
Ali
Bashir
Charles
Kumail
Sajid
Shakir
Tahir
Wajid
Zahid
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$
```

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ chmod 444 students.tx
t
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ ls -l students.txt
-r--r--r-- 1 ubuntu ubuntu 63 اپریل  3 01:32 students.txt
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ chmod 555 fstudent.tx
t
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ ls -l fstudent.txt
-r-xr-xr-x 1 ubuntu ubuntu 62 اپریل  3 01:28 fstudent.txt
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ chmod 555 pstudent.tx
t
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$ ls -l fstudent.txt
-r-xr-xr-x 1 ubuntu ubuntu 62 اپریل  3 01:28 fstudent.txt
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Documents/LAB5/Riphah$
```

Task5

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ no=10
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ echo $no
10
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ No=11
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ echo $No
11
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ NO=20
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ echo $NO
20
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ nO=2
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ echo $nO
2
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ vech=
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ echo $vech

ubuntu@ubuntu-HP-EliteBook-820-G2:~$ vech=""
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ $echo $vech
ubuntu@ubuntu-HP-EliteBook-820-G2:~$
```

Task6

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ x=10
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ echo $x
10
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ xn="Ali"
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ echo $xn
Ali
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ no1=6
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ no2=3
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ expr $no1 + $no2
9
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ x=20
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ y=5
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ expr $x / $y
4
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ z=`expr $x / $y`
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ echo $z
4
ubuntu@ubuntu-HP-EliteBook-820-G2:~$
```