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LAB 04

Name : Muhammad Hammad
Sap id : 56765
Course : Operating System
Section: SE 5-2

Presented to :

Sir. Shehzad Ahmed

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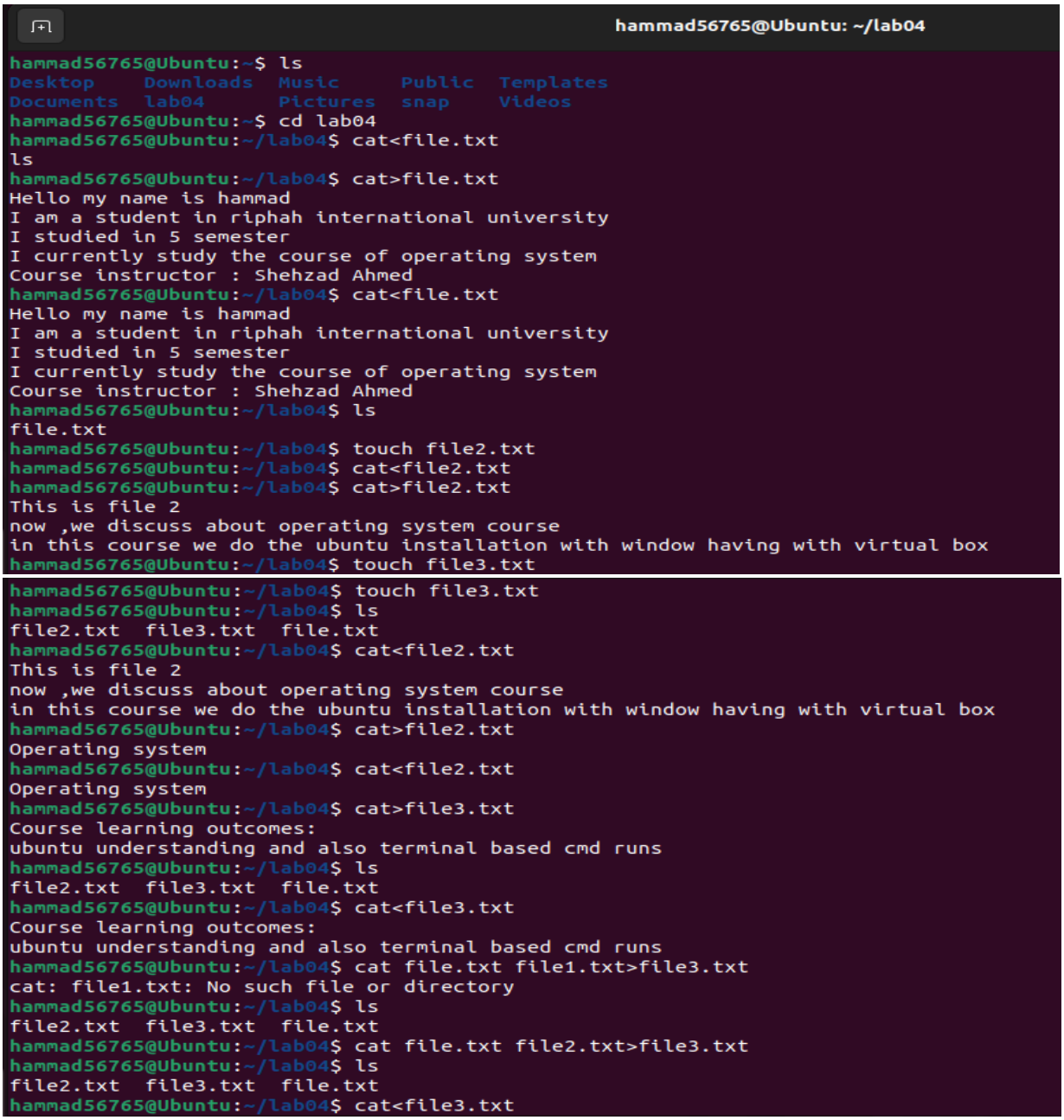
During lab work :



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```
hammad56765@Ubuntu:~/lab04$ cat<file3.txt
Hello my name is hammad
I am a student in riphah international university
I studied in 5 semester
I currently study the course of operating system
Course instructor : Shehzad Ahmed
Operating system
hammad56765@Ubuntu:~/lab04$ ls
file2.txt  file3.txt  file.txt
hammad56765@Ubuntu:~/lab04$ sudo head file3.txt
[sudo] password for hammad56765:
hammad56765 is not in the sudoers file.  This incident will be reported.
hammad56765@Ubuntu:~/lab04$ head -n3 file3.txt
Hello my name is hammad
I am a student in riphah international university
I studied in 5 semester
hammad56765@Ubuntu:~/lab04$ tail -n2 file3.txt
Course instructor : Shehzad Ahmed
Operating system
hammad56765@Ubuntu:~/lab04$ touch unsorted.txt
hammad56765@Ubuntu:~/lab04$ cat>unsorted.txt
Anees
ahmed
abbas
haroon
hammad56765@Ubuntu:~/lab04$ cat<unsorted.txt
Anees
```

```
hammad56765@Ubuntu:~/lab04$ cat<unsorted.txt
Anees
ahmed
abbas
haroon
hammad56765@Ubuntu:~/lab04$ sort <unsorted.txt>sorted.txt
hammad56765@Ubuntu:~/lab04$ cat<sorted.txt
abbas
ahmed
Anees
haroon
hammad56765@Ubuntu:~/lab04$ ls
file2.txt  file3.txt  file.txt  sorted.txt  unsorted.txt
hammad56765@Ubuntu:~/lab04$ cp file3.txt file4.txt
hammad56765@Ubuntu:~/lab04$ cat<file4.txt
Hello my name is hammad
I am a student in riphah international university
I studied in 5 semester
I currently study the course of operating system
Course instructor : Shehzad Ahmed
Operating system
hammad56765@Ubuntu:~/lab04$ ls -l
total 24
-rw-rw-r-- 1 hammad56765 hammad56765  18 Sep 16 11:42 file2.txt
-rw-rw-r-- 1 hammad56765 hammad56765 202 Sep 16 11:52 file3.txt
-rw-rw-r-- 1 hammad56765 hammad56765 202 Sep 16 12:12 file4.txt
-rw-rw-r-- 1 hammad56765 hammad56765 184 Sep 16 11:37 file.txt
```

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```
hammad56765@Ubuntu:~/lab04$ ls -l
total 24
-rw-rw-r-- 1 hammad56765 hammad56765  18 Sep 16 11:42 file2.txt
-rw-rw-r-- 1 hammad56765 hammad56765 202 Sep 16 11:52 file3.txt
-rw-rw-r-- 1 hammad56765 hammad56765 202 Sep 16 12:12 file4.txt
-rw-rw-r-- 1 hammad56765 hammad56765 184 Sep 16 11:37 file.txt
-rw-rw-r-- 1 hammad56765 hammad56765  25 Sep 16 12:02 sorted.txt
-rw-rw-r-- 1 hammad56765 hammad56765  25 Sep 16 12:00 unsorted.txt
hammad56765@Ubuntu:~/lab04$ chmod 765 file4.txt
hammad56765@Ubuntu:~/lab04$ ls -l
total 24
-rw-rw-r-- 1 hammad56765 hammad56765  18 Sep 16 11:42 file2.txt
-rw-rw-r-- 1 hammad56765 hammad56765 202 Sep 16 11:52 file3.txt
-rwxrw-r-x 1 hammad56765 hammad56765 202 Sep 16 12:12 file4.txt
-rw-rw-r-- 1 hammad56765 hammad56765 184 Sep 16 11:37 file.txt
-rw-rw-r-- 1 hammad56765 hammad56765  25 Sep 16 12:02 sorted.txt
-rw-rw-r-- 1 hammad56765 hammad56765  25 Sep 16 12:00 unsorted.txt
hammad56765@Ubuntu:~/lab04$ cd home
bash: cd: home: No such file or directory
hammad56765@Ubuntu:~/lab04$ cd/home
bash: cd/home: No such file or directory
hammad56765@Ubuntu:~/lab04$ S
```

Tasks

1. Show Simulation results after performing the following tasks by using suitable commands in Linux. Also show command/commands used for specific task.

1. Create a blank text file on your home directory with your name.

2. Make a directory with name student.

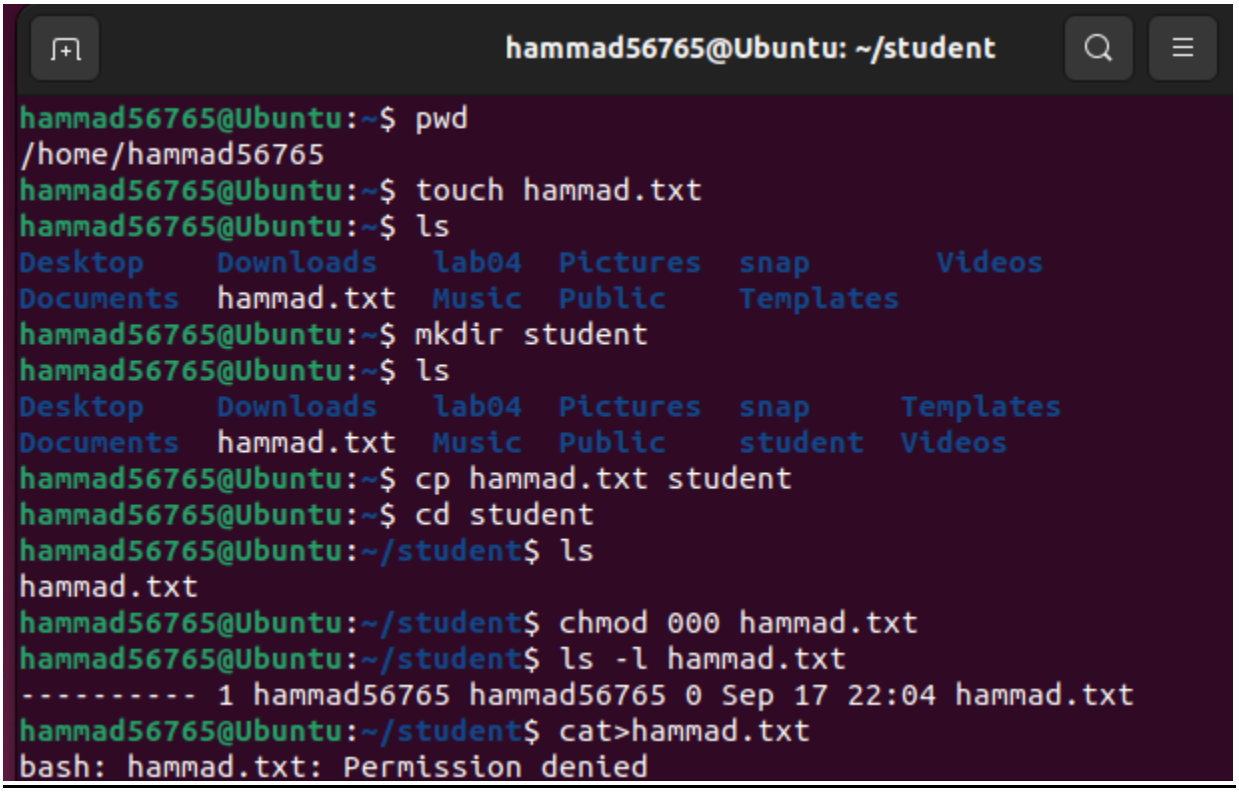
3. Change the directory to student and copy your text file in this directory.

4. Assign no permission to anyone (use numeric method for permission).

5. Verify that above task has done successfully.

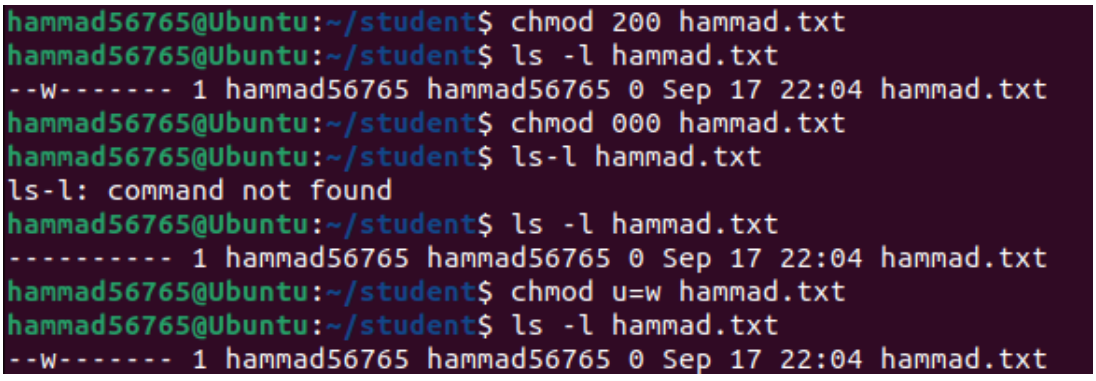
6. Now try to write in this file. If error occurs, state why?

Output:



7. Assign permission of write only to user (do it twice by using both symbolic and numeric methods). 8. Verify that above task has done successfully.

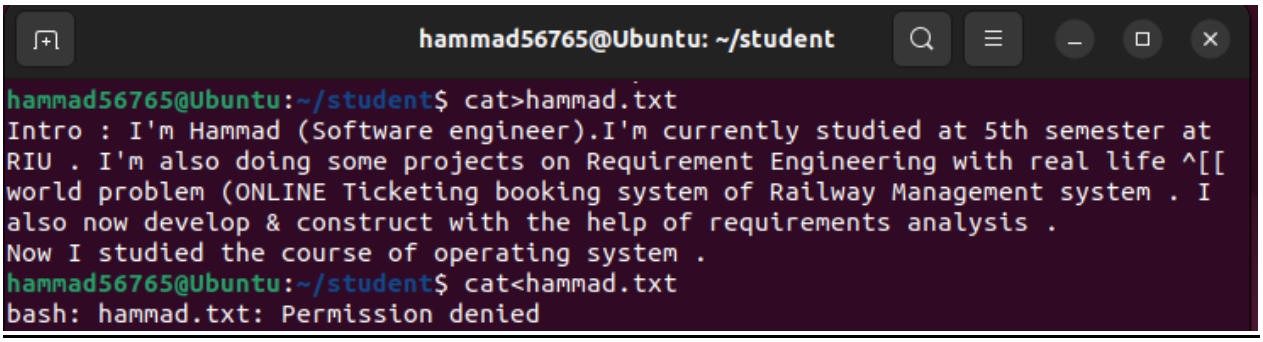
Output:



9. Write your introduction in 5 to 7 lines in .txt file.

10. Display contents of the file. If error occurs, state why?

Output:



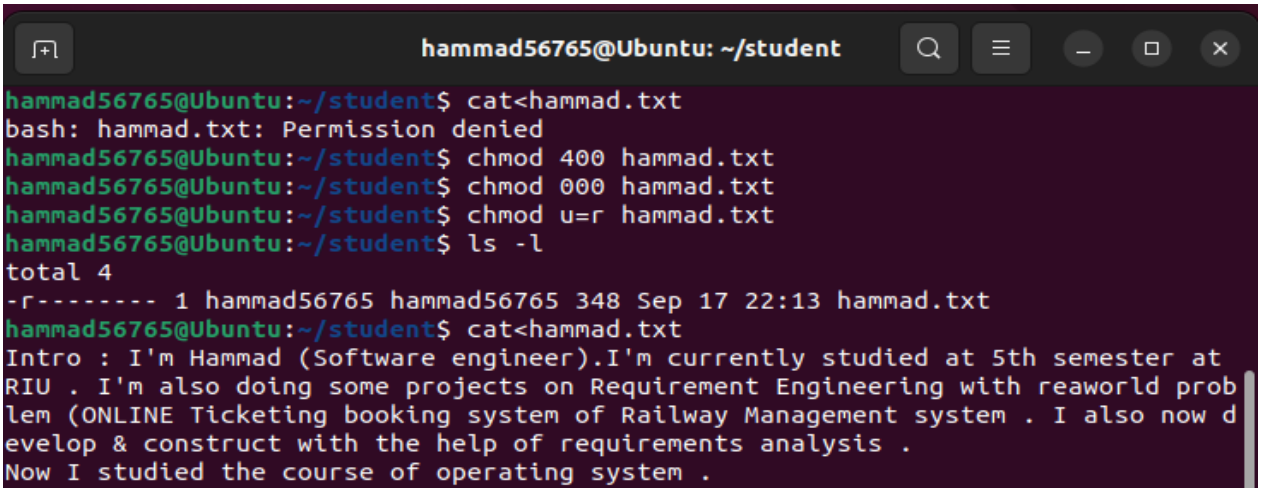
Reason : *User have only permission of write the file. On the other hand , user have not permission of file to read.*

11. Assign permission of read only to user (do it twice by using both symbolic and numeric methods).

12. Verify that above task has done successfully.

13. Display contents of the file.

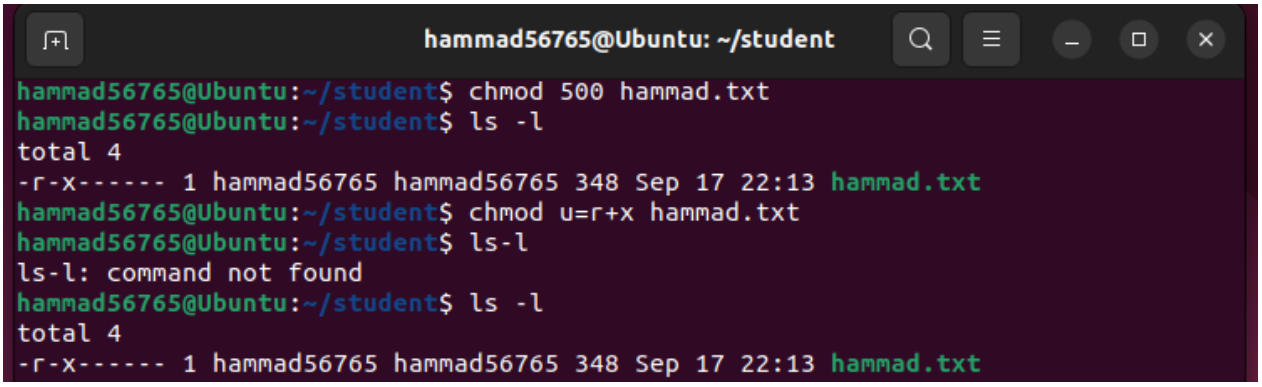
Output:



14. Assign permissions of read and execute only to user (do it twice by using both symbolic and numeric methods).

15. Verify that above task has done successfully.

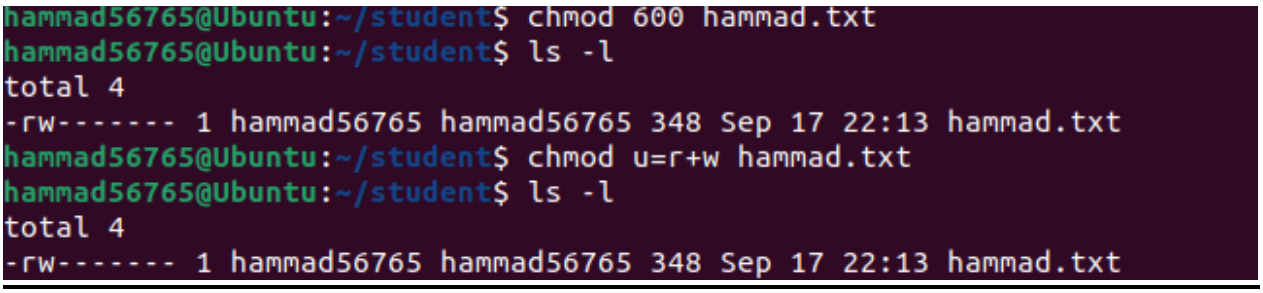
Output:



16. Assign permissions of read and write only to user (do it twice by using both symbolic and numeric methods).

17. Verify that above task has done successfully.

Output :



18. Assign all permissions to user (do it twice by using both symbolic and numeric methods).

19. Verify that above task has done successfully.

20. Assign permission of read and execute only to group (do it twice by using both symbolic and numeric methods).

21. Verify that above task has done successfully.

22. Assign all permissions to all users (do it twice by using both symbolic and numeric methods).

23. Verify that above task has done successfully.

Output:

```
hammad56765@Ubuntu:~/student$ chmod 700 hammad.txt
hammad56765@Ubuntu:~/student$ ls -l
total 4
-rwx------ 1 hammad56765 hammad56765 348 Sep 17 22:13 hammad.txt
hammad56765@Ubuntu:~/student$ chmod u=r+w+x hammad.txt
hammad56765@Ubuntu:~/student$ ls -l
total 4
-rwx------ 1 hammad56765 hammad56765 348 Sep 17 22:13 hammad.txt
hammad56765@Ubuntu:~/student$ chmod 060 hammad.txt
hammad56765@Ubuntu:~/student$ ls -l
total 4
----rw---- 1 hammad56765 hammad56765 348 Sep 17 22:13 hammad.txt
hammad56765@Ubuntu:~/student$ chmod g=r+w hammad.txt
hammad56765@Ubuntu:~/student$ ls -l hammad.txt
----rw---- 1 hammad56765 hammad56765 348 Sep 17 22:13 hammad.txt
hammad56765@Ubuntu:~/student$ chmod 777 hammad.txt
hammad56765@Ubuntu:~/student$ chmod a+rwx hammad.txt
hammad56765@Ubuntu:~/student$ ls -l
total 4
-rwxrwxrwx 1 hammad56765 hammad56765 348 Sep 17 22:13 hammad.txt
```

2. Show Simulation results after performing the following tasks by using suitable commands in Linux. Also show command/commands used for specific task.

1. Create 3 empty text files and name them as students.txt, pstudent.txt and fstudents.txt.

2. Assign permissions to read only permission to the user (do it twice by using both symbolic and numeric methods).

3. Enter at least 10 10 different students' names in pstudent.txt and fstudent.txt. If any error appears, debug that error for user only.

4. Now create directory named RIPHAH and assign permissions of read only to user and group (do it twice by using both symbolic and numeric methods).

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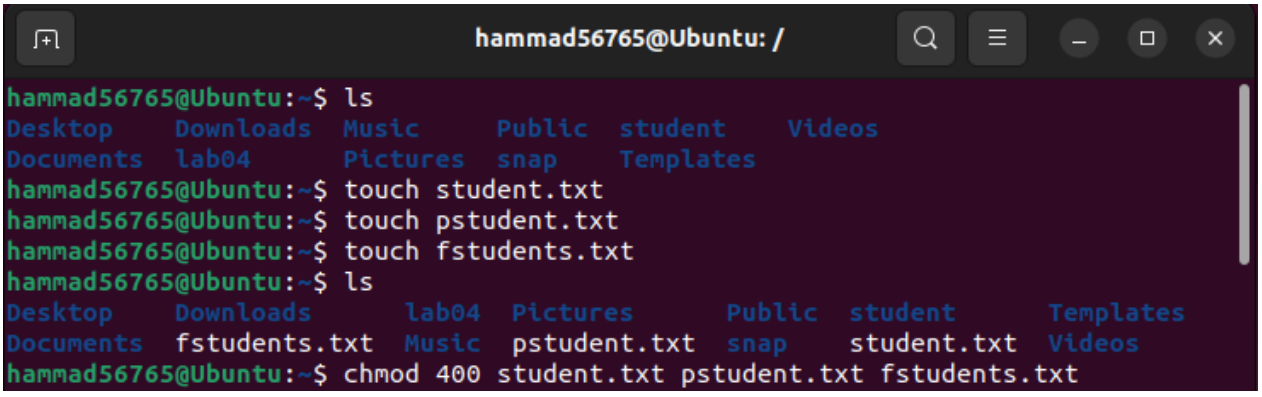
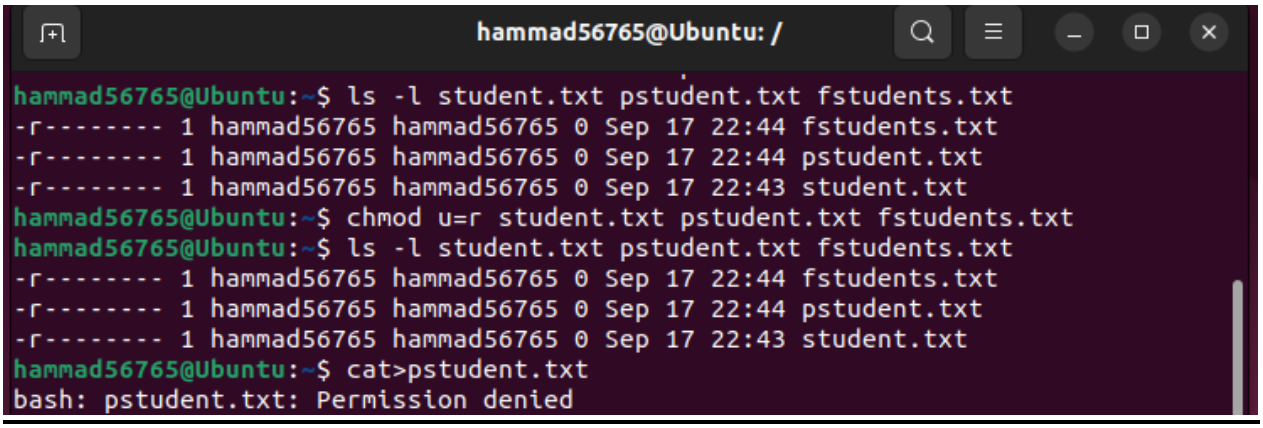
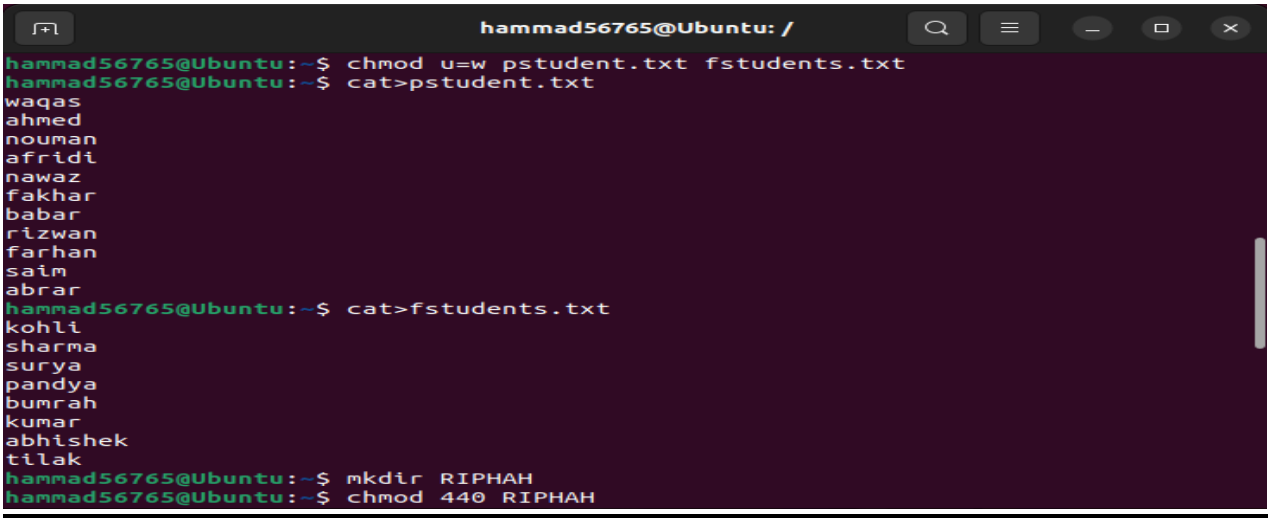
Output :







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```
hammad56765@Ubuntu:~$ ls -ld RIPHAH
dr--r----- 2 hammad56765 hammad56765 4096 Sep 17 22:50 RIPHAH
hammad56765@Ubuntu:~$ chmod ug=r RIPHAH
hammad56765@Ubuntu:~$ ls -ld RIPHAH
dr--r----- 2 hammad56765 hammad56765 4096 Sep 17 22:50 RIPHAH
```