OS PRACTICAL 1

Name: harshwardhan tilekar
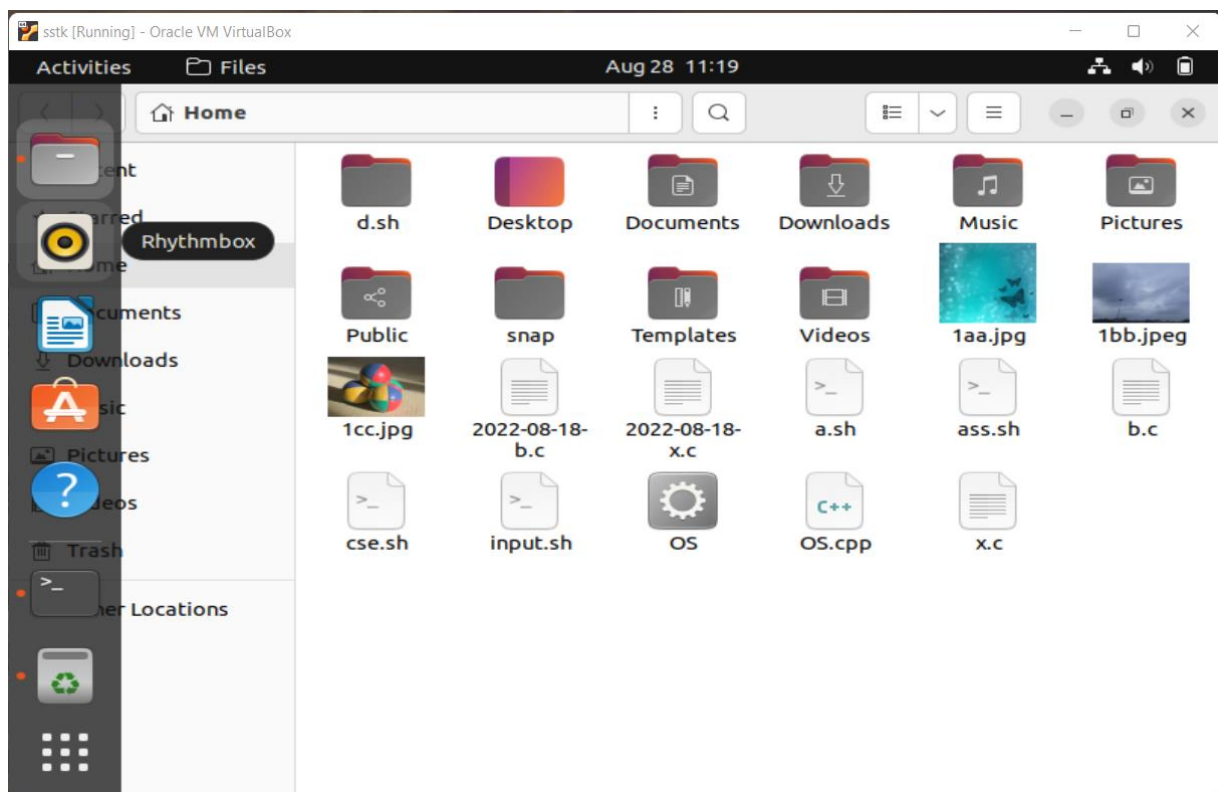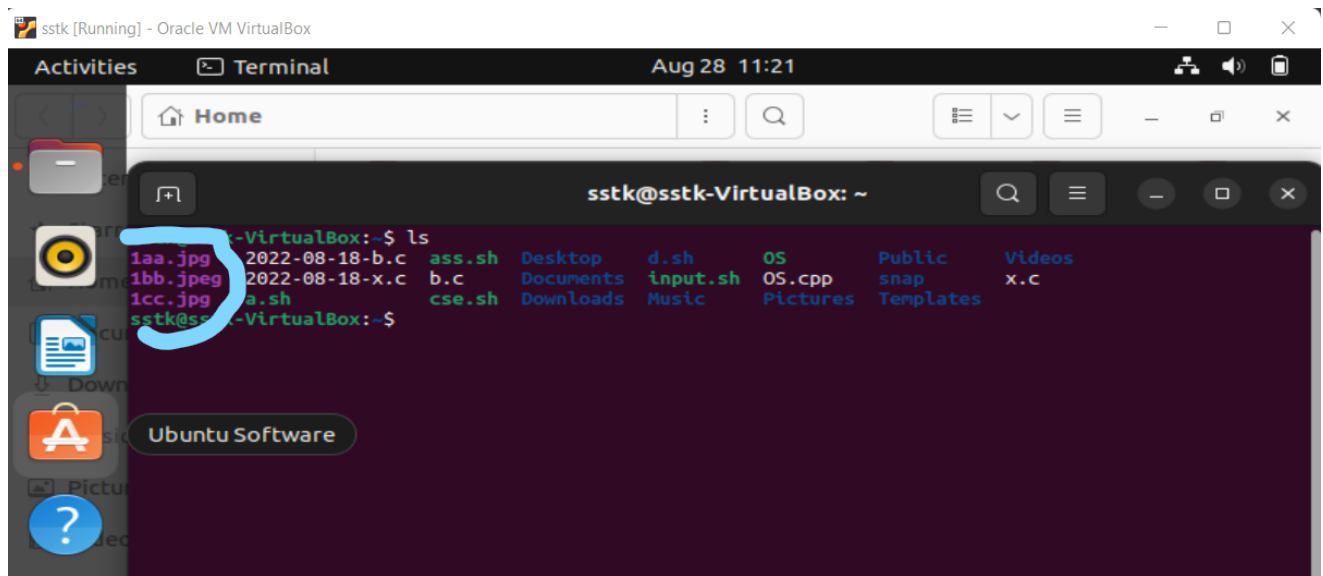
Roll No: 23

Batch: A2

Write shell scripts to

A) Rename all files in the current directory that end in ".jpg" to begin with today's date in the following format: YYYY-MM-DD. For example, if a picture of my cat was in the current directory and today was December 31,2020 it would change name from "mycat.jpg" to "2020–12–31-mycat.jpg".
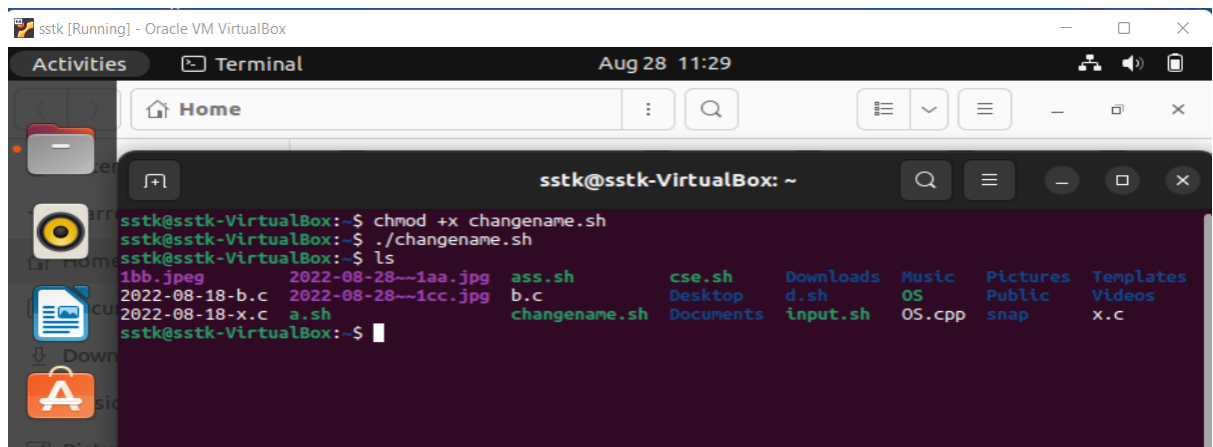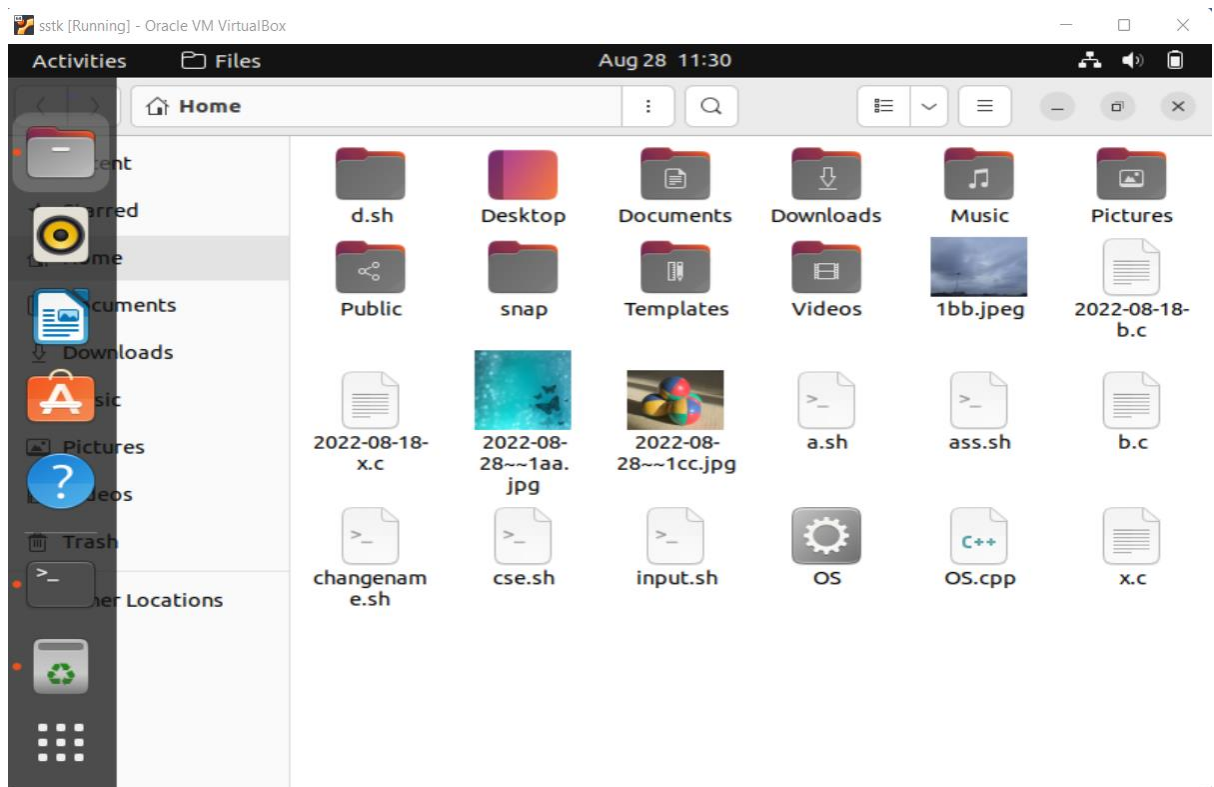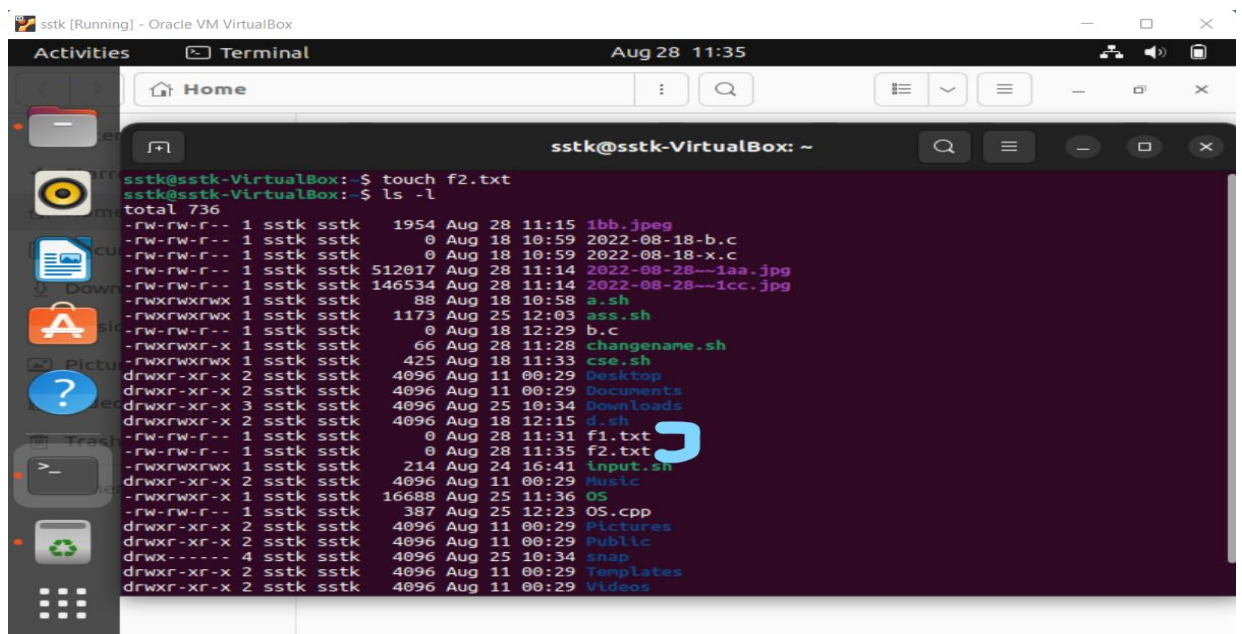
Before rename:

Code :


```
1 day=$(date +%F)
2 for file in *.jpg
3 do
4 mv $file ${day}~${file}
5 done
```

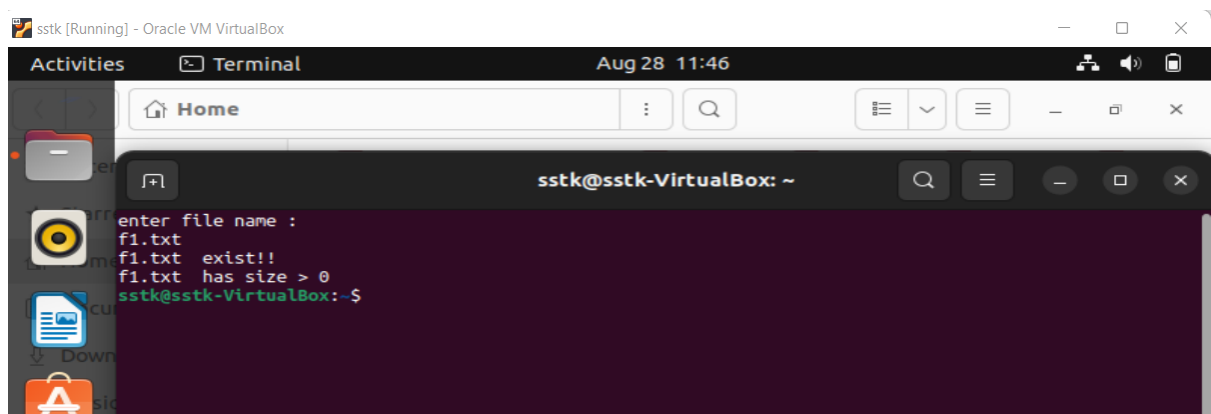**After Rename :**

B) Delete the zero sized file

Before Deletion
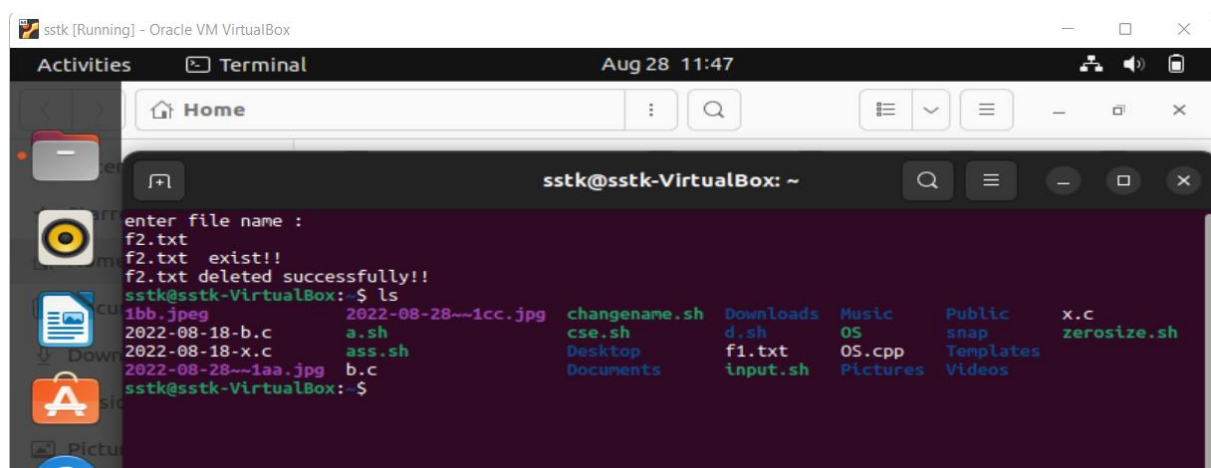
Code :


```
1  clear
2  echo "enter file name : "
3  read filenm
4  if [ -e $filenm ]
5  then echo $filenm " exist!!"
6         if [ -s $filenm ]
7         then echo $filenm " has size > 0"
8         else
9         rm $filenm
10        echo $filenm "deleted successfully!!"
11        fi
12 else
13 echo $filenm "file not exist!!"
14 fi
```
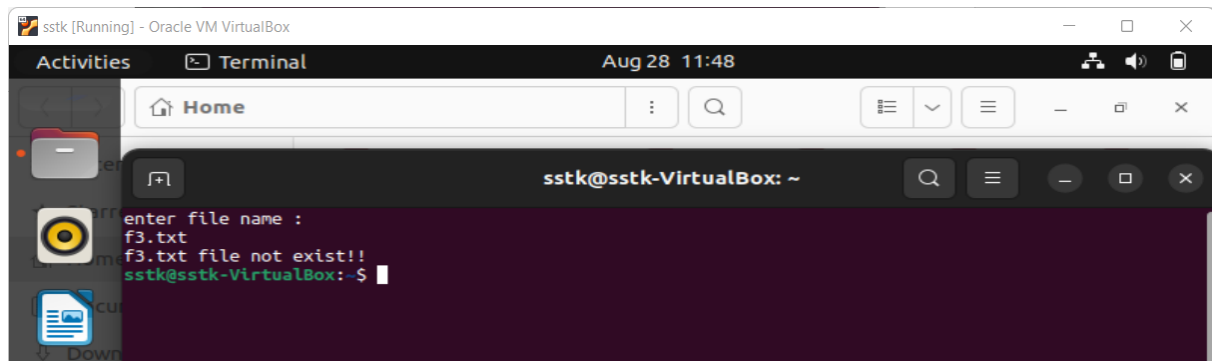
Output :


```
enter file name :
f1.txt
f1.txt  exist!!
f1.txt  has size > 0
sstk@sstk-VirtualBox:~$
```
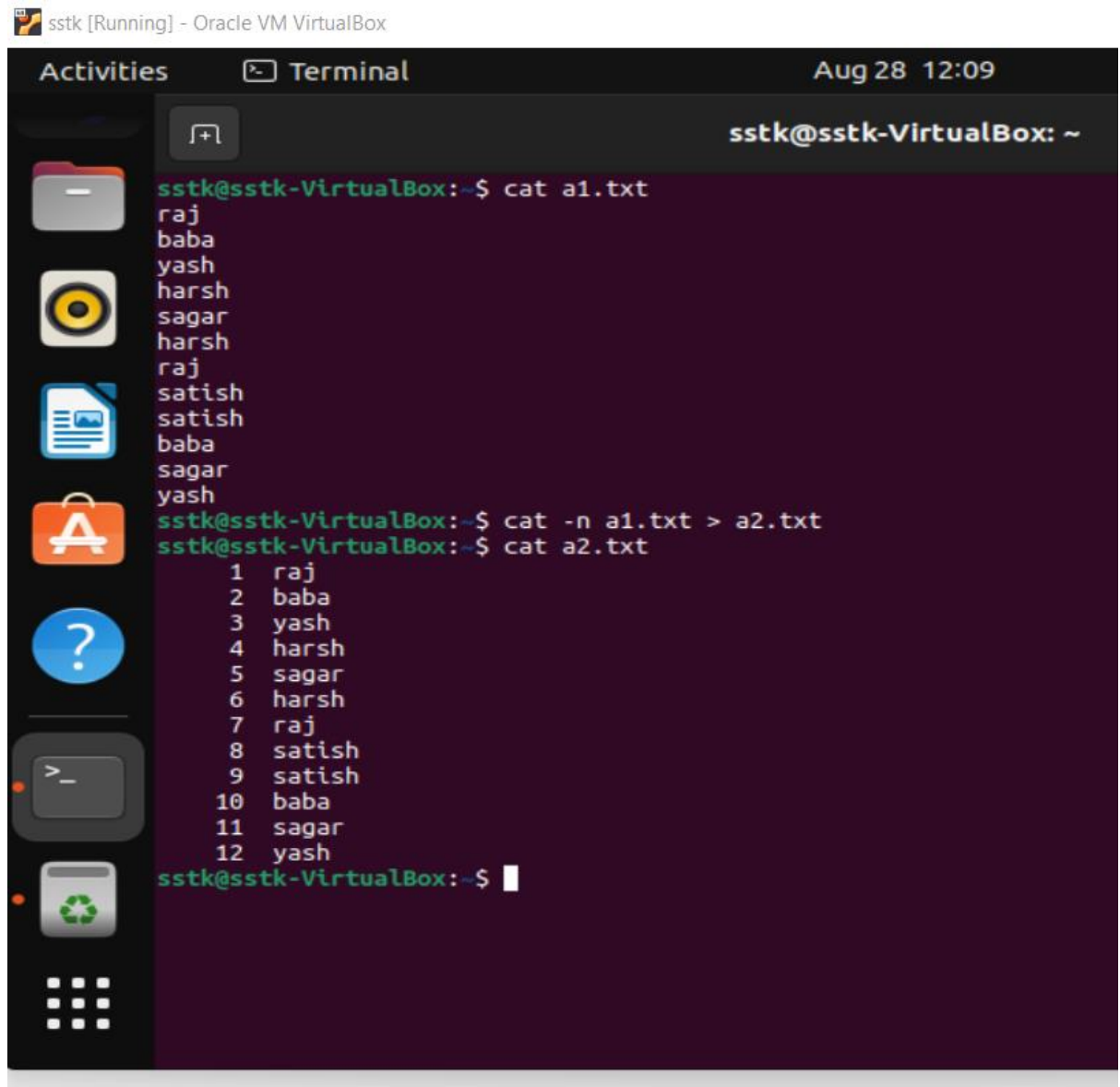


```
enter file name :
f2.txt
f2.txt  exist!!
f2.txt deleted successfully!!
sstk@sstk-VirtualBox:~$ ls
1bb.jpeg          2022-08-28~~1cc.jpg    changename.sh   Downloads   Music       Public       x.c
2022-08-18-b.c    a.sh                   cse.sh          d.sh        OS          snap         zerosize.sh
2022-08-18-x.c    ass.sh                 Desktop         f1.txt      OS.cpp      Templates
2022-08-28~~1aa.jpg b.c                  Documents       input.sh    Pictures    Videos
sstk@sstk-VirtualBox:~$
```
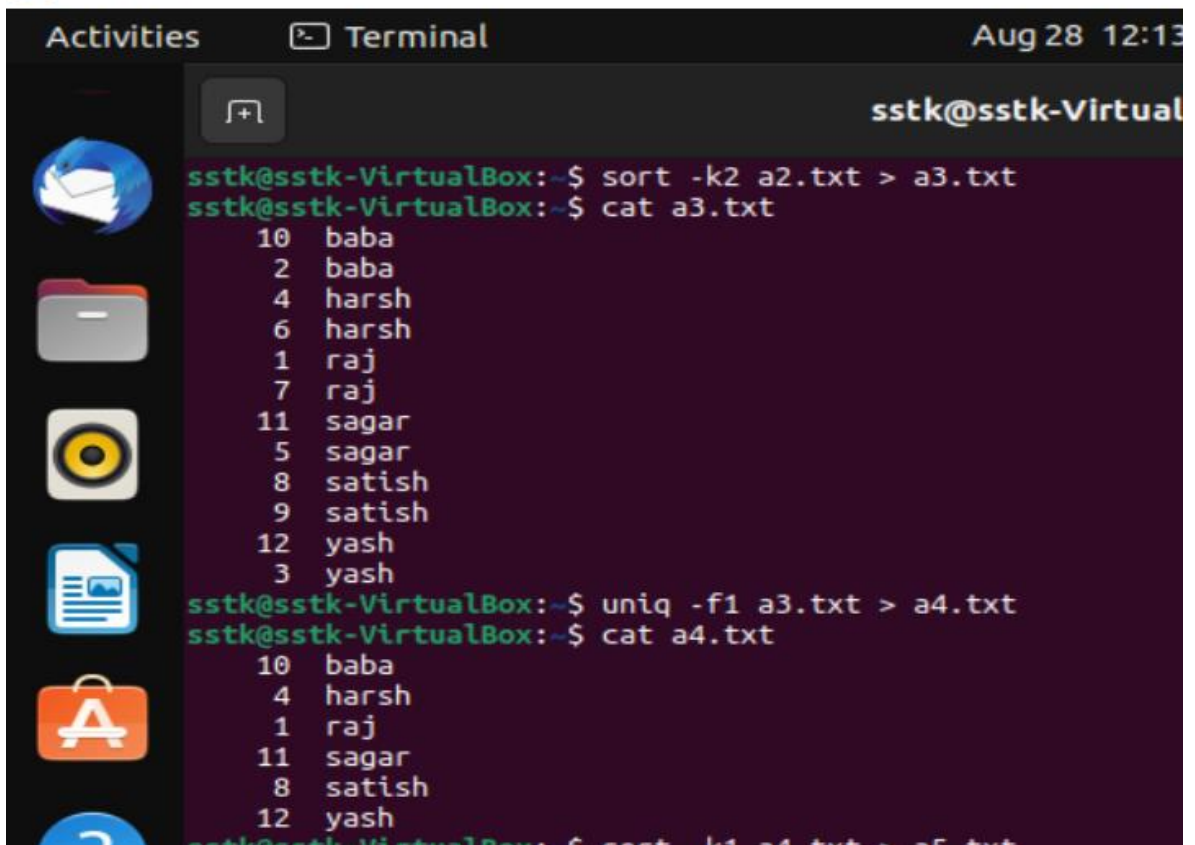
Activities   Terminal   Aug 28 11:48

Home

sstk@sstk-VirtualBox: ~

```
enter file name :
f3.txt
f3.txt file not exist!!
sstk@sstk-VirtualBox:~$
```

c) Take an input file and remove identical lines (or duplicate lines from the file)

Activities   Terminal   Aug 28 12:09

sstk@sstk-VirtualBox: ~

```
sstk@sstk-VirtualBox:~$ cat a1.txt
raj
baba
yash
harsh
sagar
harsh
raj
satish
satish
baba
sagar
yash
sstk@sstk-VirtualBox:~$ cat -n a1.txt > a2.txt
sstk@sstk-VirtualBox:~$ cat a2.txt
     1  raj
     2  baba
     3  yash
     4  harsh
     5  sagar
     6  harsh
     7  raj
     8  satish
     9  satish
    10  baba
    11  sagar
    12  yash
sstk@sstk-VirtualBox:~$
```
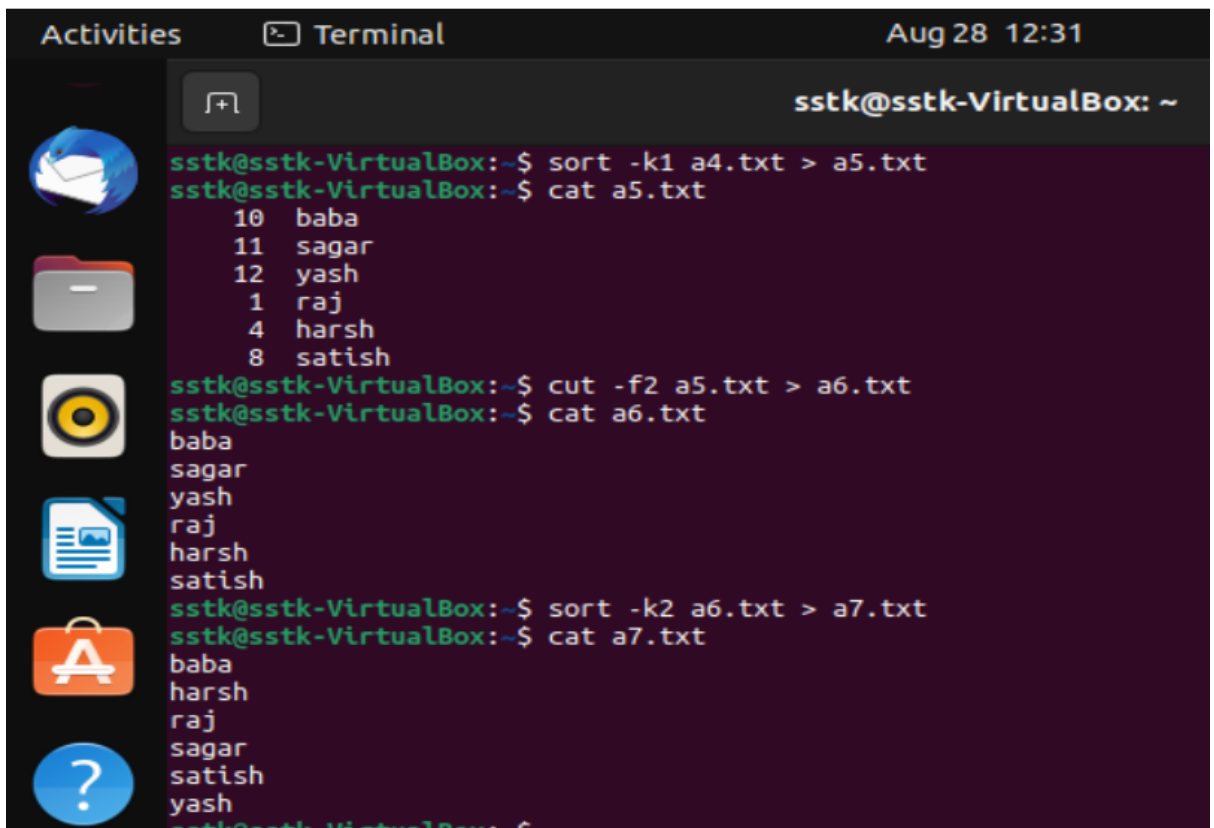
Activities   🖵 Terminal   Aug 28 12:13

sstk@sstk-Virtual

```
sstk@sstk-VirtualBox:~$ sort -k2 a2.txt > a3.txt
sstk@sstk-VirtualBox:~$ cat a3.txt
    10  baba
     2  baba
     4  harsh
     6  harsh
     1  raj
     7  raj
    11  sagar
     5  sagar
     8  satish
     9  satish
    12  yash
     3  yash
sstk@sstk-VirtualBox:~$ uniq -f1 a3.txt > a4.txt
sstk@sstk-VirtualBox:~$ cat a4.txt
    10  baba
     4  harsh
     1  raj
    11  sagar
     8  satish
    12  yash
sstk@sstk-VirtualBox:~$ sort -k1 a4.txt > a5.txt
```
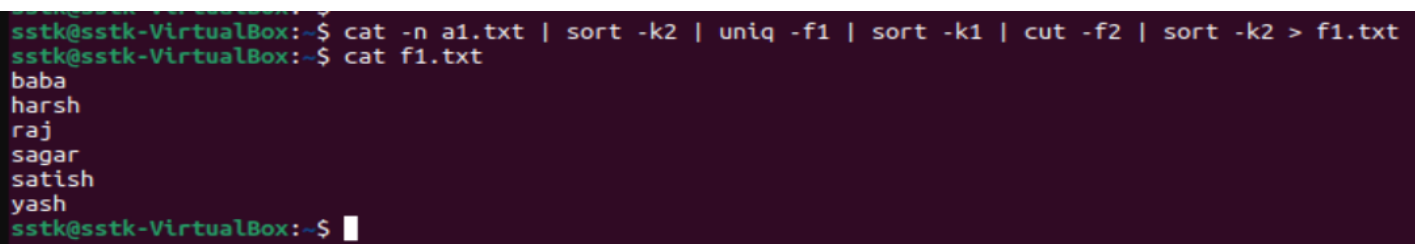
Activities   🖵 Terminal   Aug 28 12:31

sstk@sstk-VirtualBox: ~

```
sstk@sstk-VirtualBox:~$ sort -k1 a4.txt > a5.txt
sstk@sstk-VirtualBox:~$ cat a5.txt
    10  baba
    11  sagar
    12  yash
     1  raj
     4  harsh
     8  satish
sstk@sstk-VirtualBox:~$ cut -f2 a5.txt > a6.txt
sstk@sstk-VirtualBox:~$ cat a6.txt
baba
sagar
yash
raj
harsh
satish
sstk@sstk-VirtualBox:~$ sort -k2 a6.txt > a7.txt
sstk@sstk-VirtualBox:~$ cat a7.txt
baba
harsh
raj
sagar
satish
yash
sstk@sstk-VirtualBox:~$
```

All in one

```
sstk@sstk-VirtualBox:~$ cat -n a1.txt | sort -k2 | uniq -f1 | sort -k1 | cut -f2 | sort -k2 > f1.txt
sstk@sstk-VirtualBox:~$ cat f1.txt
baba
harsh
raj
sagar
satish
yash
sstk@sstk-VirtualBox:~$
```