

# ***SYSTEM PROGRAMMING LAB***

## ***LAB 4***

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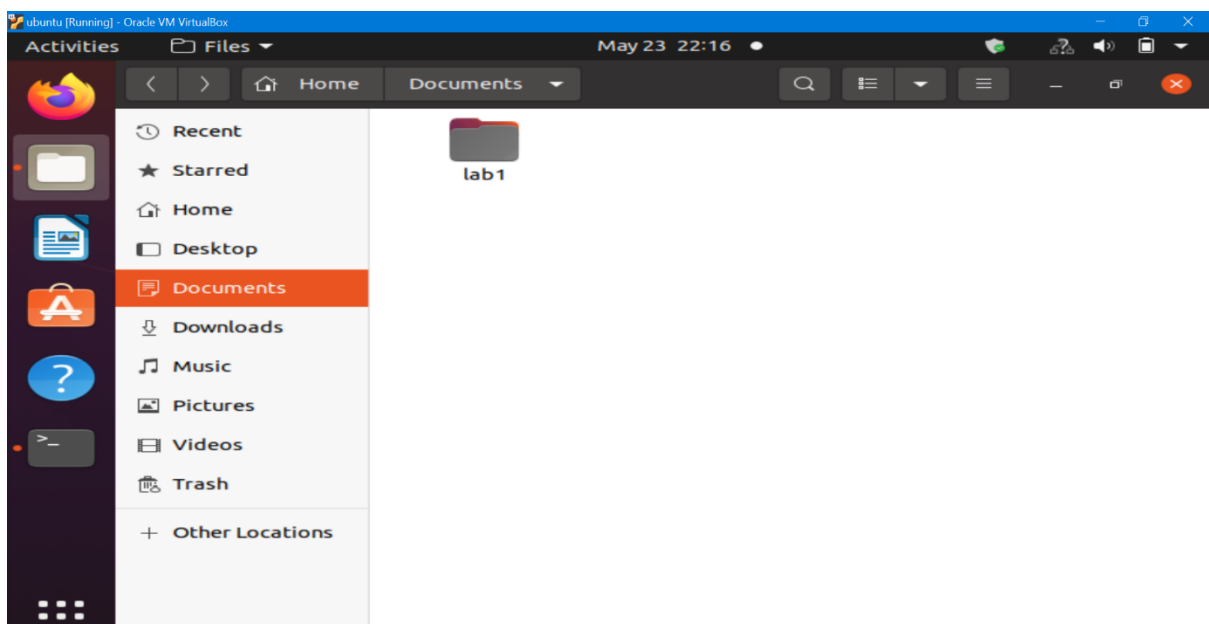
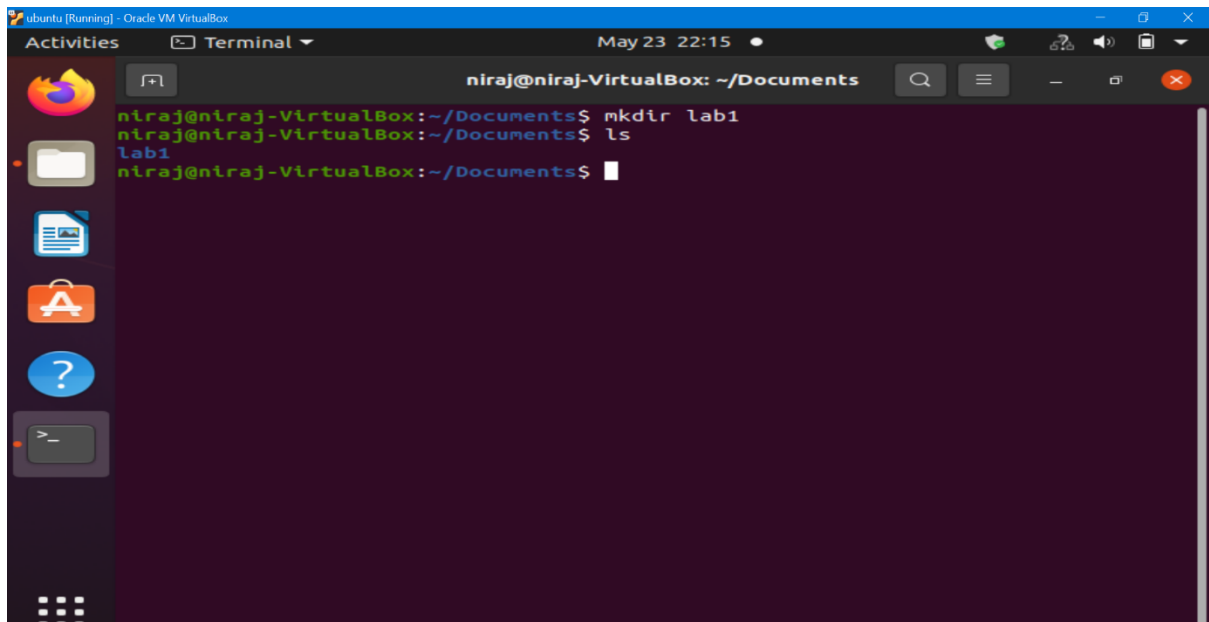
***CSE, IV SEM***

*Question 2*

*Completing following tasks:*

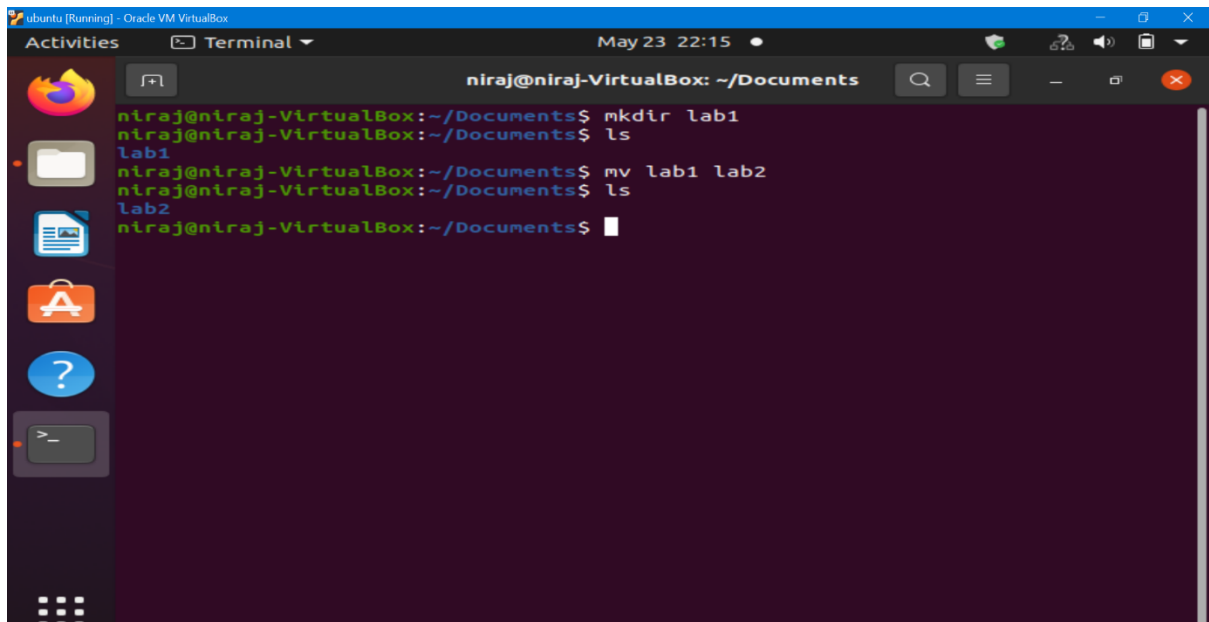
*1. Creating a new directory named lab1.*

*mkdir lab1*



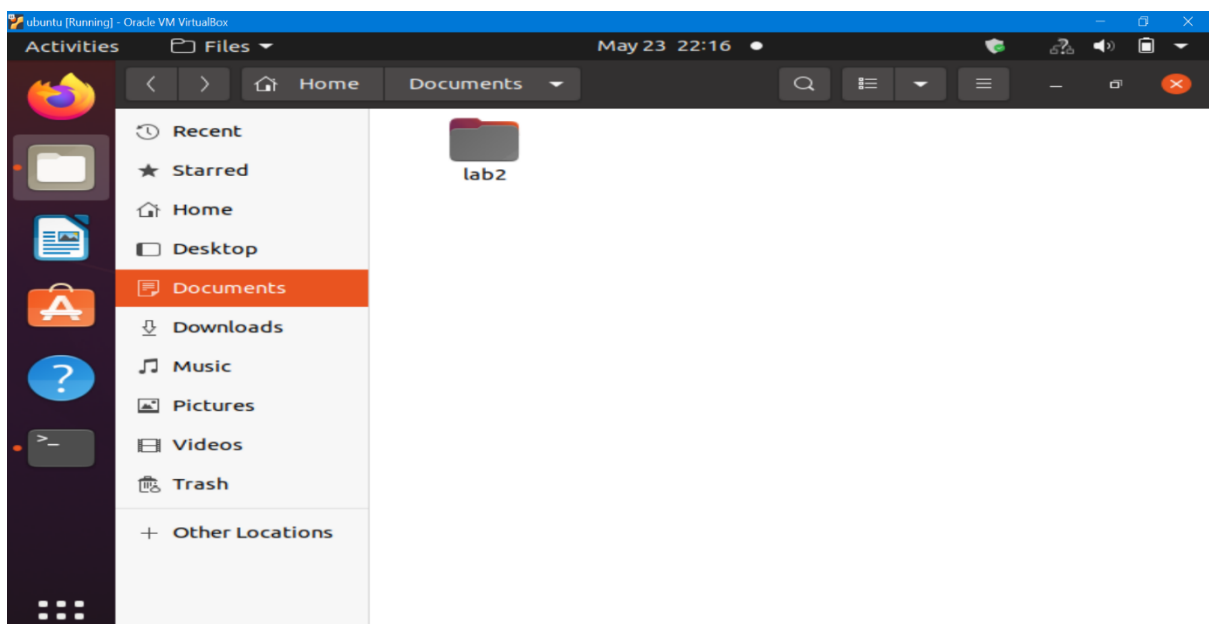
*2. Changing directory name into lab2*

*mv lab1 lab2*



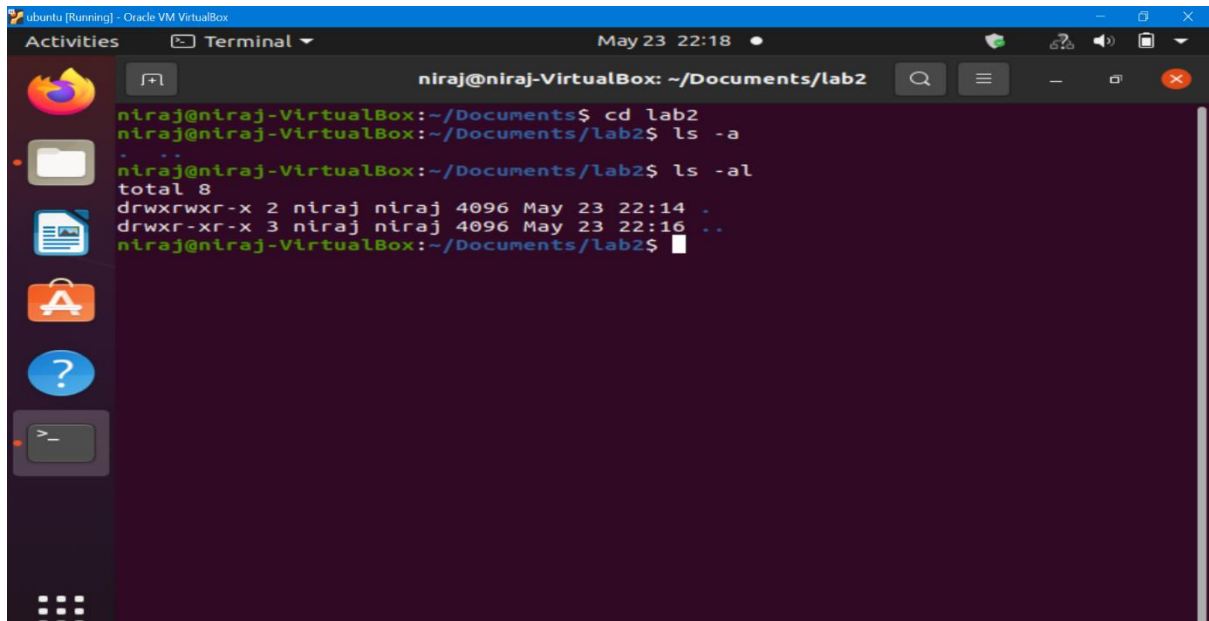
A terminal window titled 'niraj@niraj-VirtualBox: ~/Documents' with a search bar and menu icons. The terminal shows the following commands and output:

```
niraj@niraj-VirtualBox:~/Documents$ mkdir lab1
niraj@niraj-VirtualBox:~/Documents$ ls
lab1
niraj@niraj-VirtualBox:~/Documents$ mv lab1 lab2
niraj@niraj-VirtualBox:~/Documents$ ls
lab2
niraj@niraj-VirtualBox:~/Documents$
```



*3. Listing all files, even hidden files (directory should be blank) of "lab2".*

*ls -a and ls -al*



The screenshot shows a terminal window titled 'niraj@niraj-VirtualBox: ~/Documents/lab2'. The user has navigated to the 'lab2' directory and listed its contents. The output shows two entries: a directory '.' and a directory '..'. The permissions for both are 'drwxrwxr-x', owned by 'niraj' and 'niraj', with a size of '4096' bytes, and they were created on 'May 23' at '22:14' and '22:16' respectively.

```
niraj@niraj-VirtualBox:~/Documents$ cd lab2
niraj@niraj-VirtualBox:~/Documents/lab2$ ls -a
.
..
niraj@niraj-VirtualBox:~/Documents/lab2$ ls -al
total 8
drwxrwxr-x 2 niraj niraj 4096 May 23 22:14 .
drwxr-xr-x 3 niraj niraj 4096 May 23 22:16 ..
niraj@niraj-VirtualBox:~/Documents/lab2$
```

4. Creating a new file that contains the calender for this month

name "calender.txt".

`cal > calender.txt` (also displaying its content after creating)

ubuntu [Running] - Oracle VM VirtualBox

Activities Terminal May 23 22:22

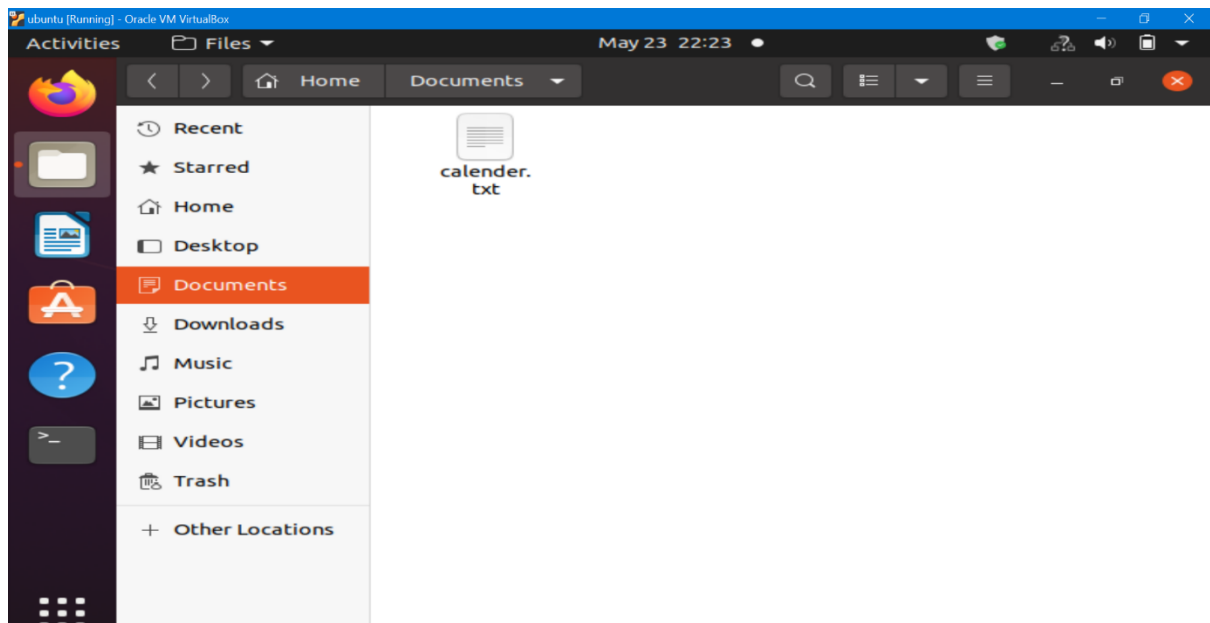
niraj@niraj-VirtualBox: ~/Documents

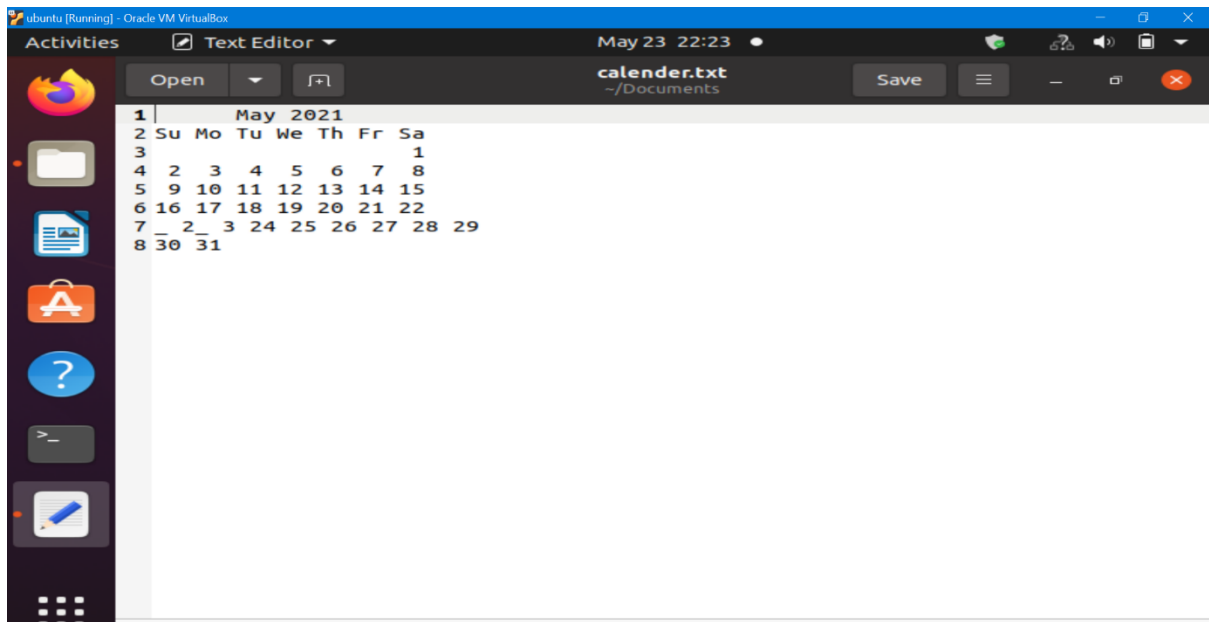
```
niraj@niraj-VirtualBox:~/Documents$ cal > calender.txt
niraj@niraj-VirtualBox:~/Documents$ cat calender.txt
```

May 2021

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

niraj@niraj-VirtualBox:~/Documents\$



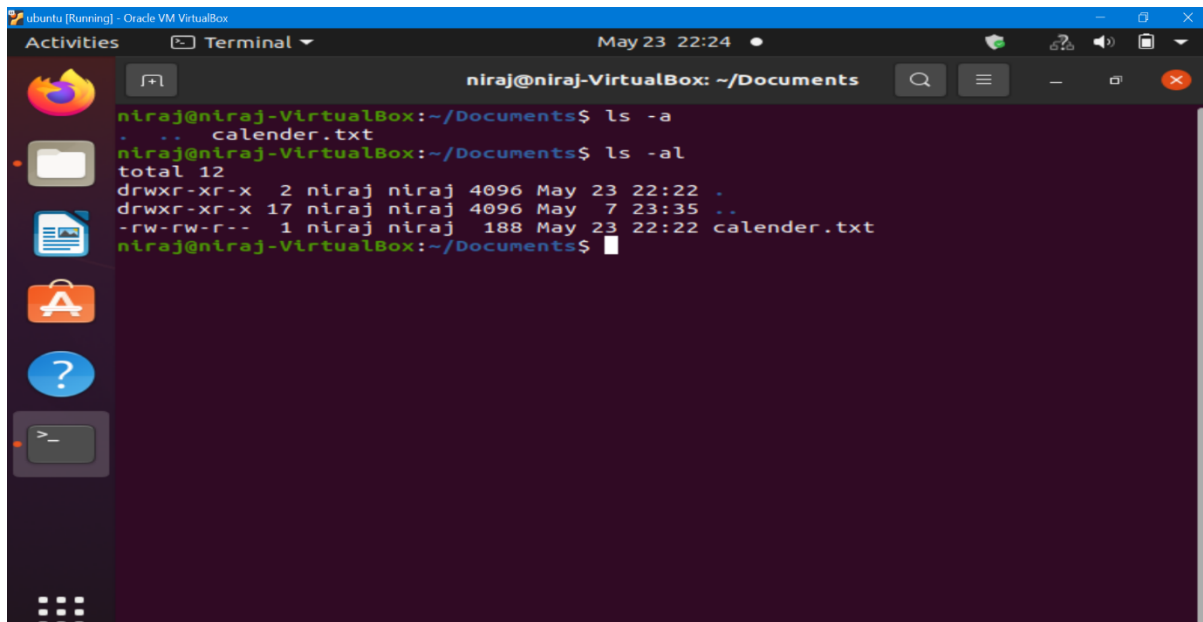
A screenshot of a text editor window titled 'calender.txt' in the '~Documents' directory. The window shows a calendar for May 2021. The calendar is displayed as a table with days of the week as headers and dates as values. The text is as follows:

```
1 | May 2021
2 Su Mo Tu We Th Fr Sa
3                                     1
4 2 3 4 5 6 7 8
5 9 10 11 12 13 14 15
6 16 17 18 19 20 21 22
7 _ 2_ 3 24 25 26 27 28 29
8 30 31
```

*5. List all files again, even hidden files (there should be just one*

*file i.e., “calender.txt”).*

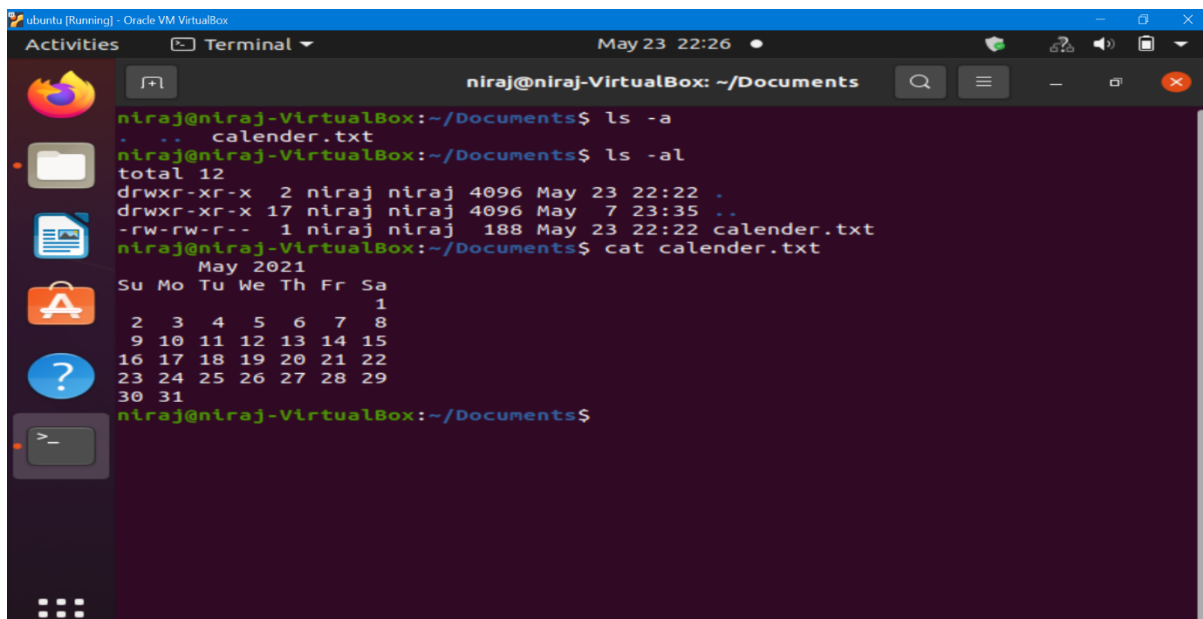
*ls -a and ls -a*

A terminal window titled 'niraj@niraj-VirtualBox: ~/Documents' showing the output of 'ls -a' and 'ls -al' commands. The file 'calender.txt' is listed with permissions -rw-rw-r-- and size 188 bytes.

```
niraj@niraj-VirtualBox:~/Documents$ ls -a
.  ..  calender.txt
niraj@niraj-VirtualBox:~/Documents$ ls -al
total 12
drwxr-xr-x  2 niraj niraj 4096 May 23 22:22 .
drwxr-xr-x 17 niraj niraj 4096 May  7 23:35 ..
-rw-rw-r--  1 niraj niraj 188 May 23 22:22 calender.txt
niraj@niraj-VirtualBox:~/Documents$
```

6. Displaying the entire contents of that new file (“calender.txt”).

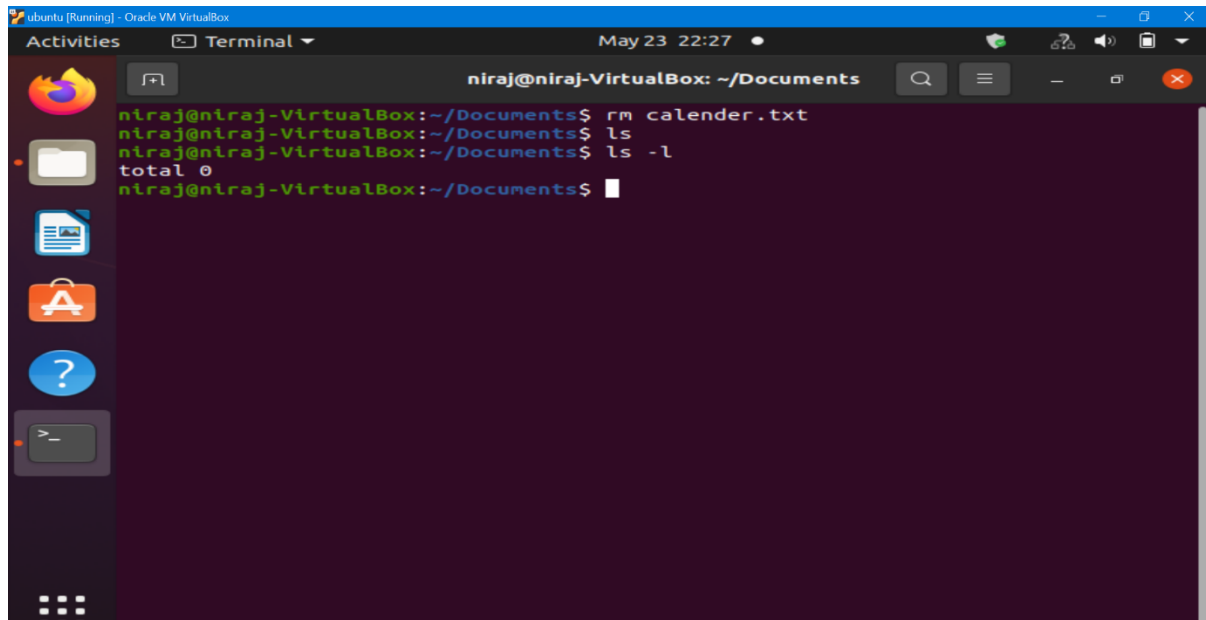
*cat calender.txt*

A terminal window showing the output of the 'cat calender.txt' command. The output is a calendar for May 2021, starting on a Sunday.

```
niraj@niraj-VirtualBox:~/Documents$ cat calender.txt
May 2021
Su Mo Tu We Th Fr Sa
      1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31
niraj@niraj-VirtualBox:~/Documents$
```

7. Deleting the file (“calender.txt”).

*rm calendar.txt*



A screenshot of a terminal window titled "niraj@niraj-VirtualBox: ~/Documents". The terminal shows the following commands and output:

```
niraj@niraj-VirtualBox:~/Documents$ rm calendar.txt
niraj@niraj-VirtualBox:~/Documents$ ls
niraj@niraj-VirtualBox:~/Documents$ ls -l
total 0
niraj@niraj-VirtualBox:~/Documents$
```

The terminal window is part of a desktop environment with a sidebar on the left containing icons for Firefox, Files, and other applications. The top bar shows the date and time as "May 23 22:27".

