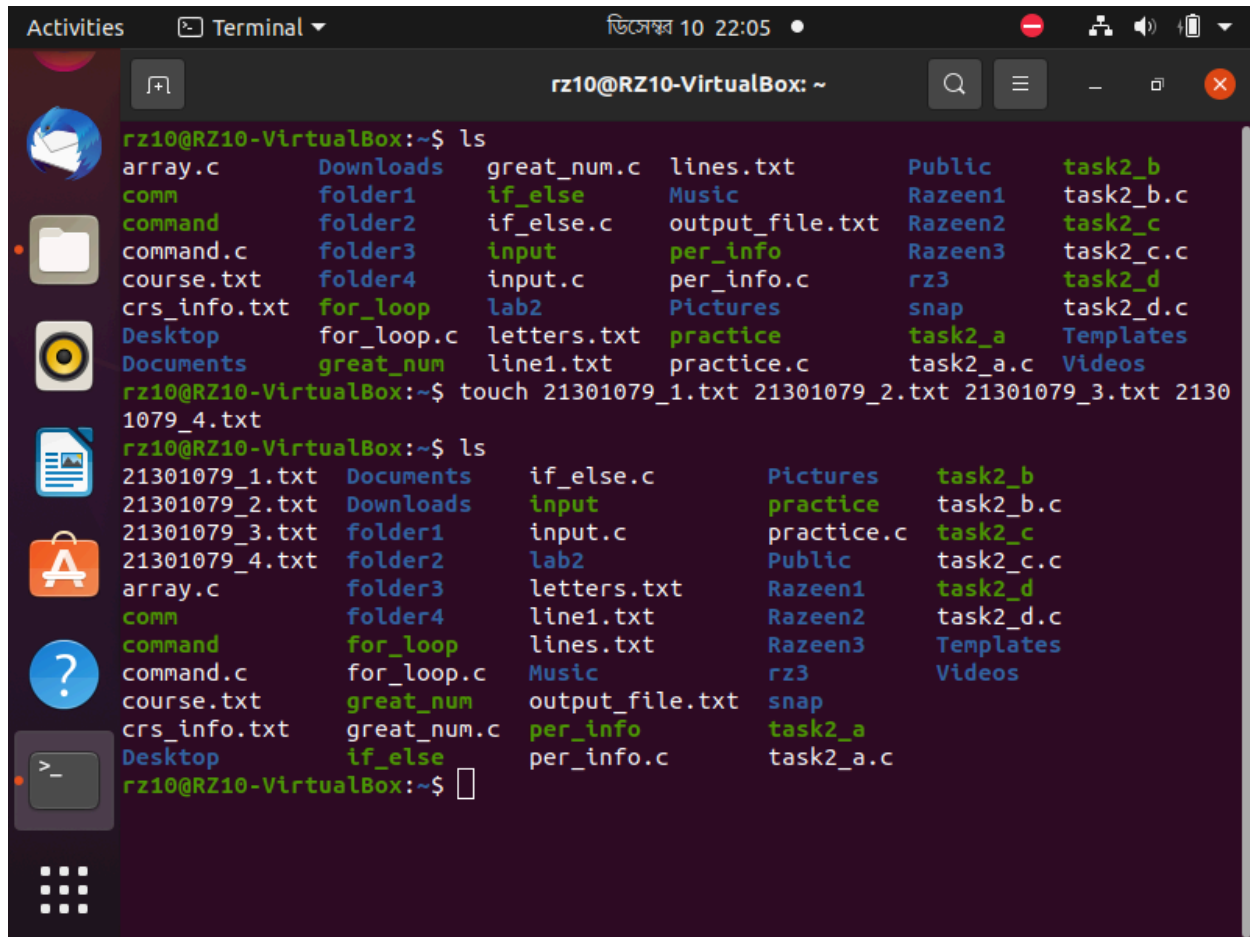


Linux Commands:

`touch 21301079_1.txt 21301079_2.txt 21301079_3.txt 21301079_4.txt`

`mkdir Razeen1 Razeen2`



The screenshot shows a terminal window titled "rz10@RZ10-VirtualBox: ~". The window displays the output of two `ls` commands and the execution of a `touch` command. The first `ls` command lists the contents of the home directory, showing a mix of files and folders. The second `ls` command lists the contents of the `Documents` directory, showing files created by the `touch` command. The `touch` command is used to create four text files: `21301079_1.txt`, `21301079_2.txt`, `21301079_3.txt`, and `21301079_4.txt`.

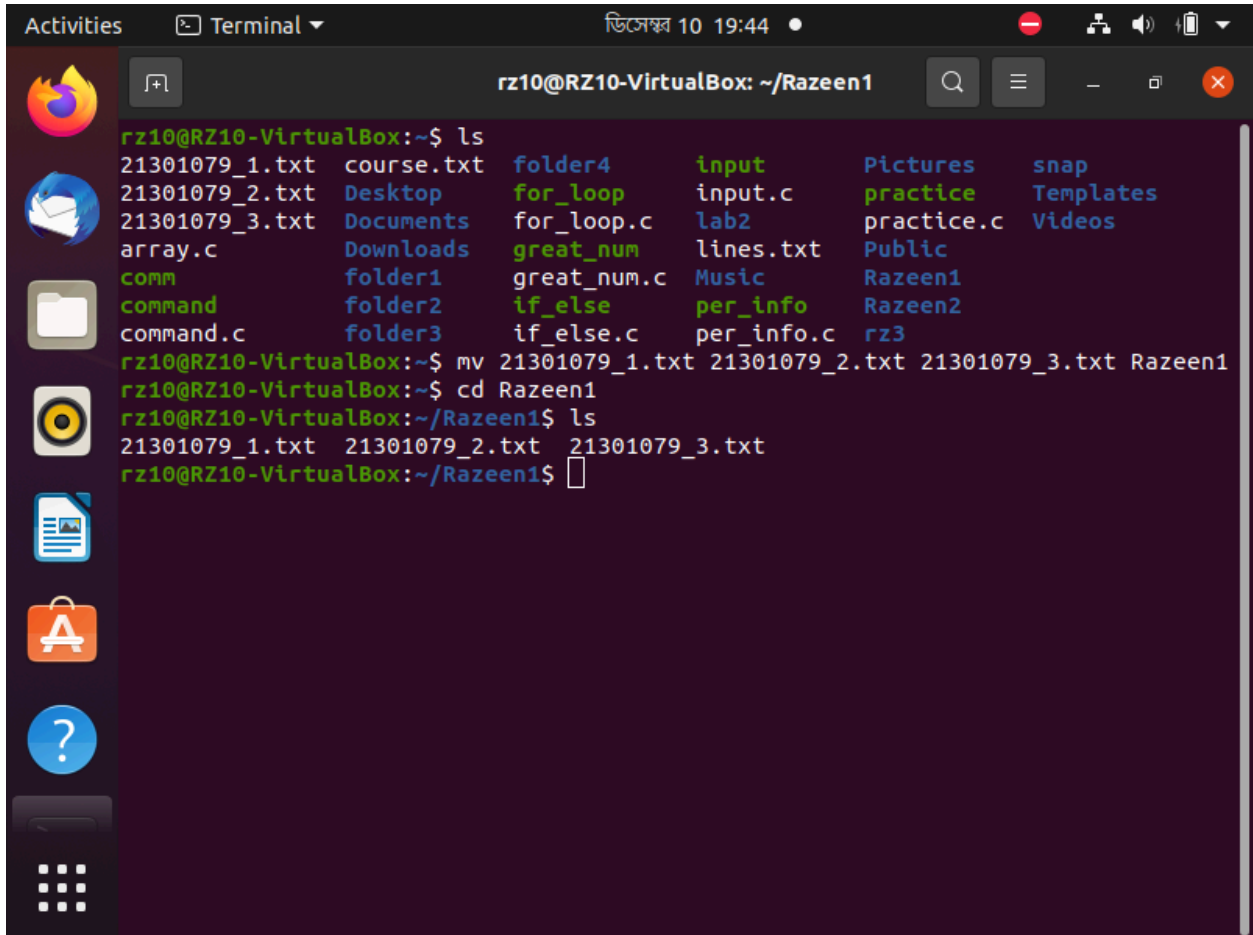
```
rz10@RZ10-VirtualBox:~$ ls
array.c      Downloads  great_num.c  lines.txt    Public      task2_b
comm         folder1   if_else      Music        Razeen1     task2_b.c
command      folder2   if_else.c    output_file.txt Razeen2     task2_c
command.c    folder3   input        per_info     Razeen3     task2_c.c
course.txt   folder4   input.c      per_info.c   rz3         task2_d
crs_info.txt for_loop  lab2         Pictures     snap        task2_d.c
Desktop      for_loop.c letters.txt  practice     task2_a     task2_d.c
Documents    great_num line1.txt    practice.c   task2_a.c   Templates
rz10@RZ10-VirtualBox:~$ touch 21301079_1.txt 21301079_2.txt 21301079_3.txt 21301079_4.txt
rz10@RZ10-VirtualBox:~$ ls
21301079_1.txt Documents  if_else.c    Pictures     task2_b
21301079_2.txt Downloads  input        practice     task2_b.c
21301079_3.txt folder1    input.c      practice.c   task2_c
21301079_4.txt folder2    lab2         Public       task2_c.c
array.c       folder3   letters.txt  Razeen1     task2_d
comm          folder4   line1.txt   Razeen2     task2_d.c
command       for_loop  lines.txt   Razeen3     Templates
command.c     for_loop.c Music        rz3         Videos
course.txt    great_num output_file.txt snap
crs_info.txt  great_num.c per_info     task2_a
Desktop       if_else   per_info.c   task2_a.c
rz10@RZ10-VirtualBox:~$
```

Activities Terminal ডিসেম্বর 10 19:16

rz10@RZ10-VirtualBox: ~

```
rz10@RZ10-VirtualBox:~$ touch 21301079_1.txt 21301079_2.txt 21301079_3.txt
rz10@RZ10-VirtualBox:~$ mkdir Razeen1 Razeen2
rz10@RZ10-VirtualBox:~$ ls
21301079_1.txt  course.txt  folder4      input      Pictures    snap
21301079_2.txt  Desktop    for_loop     input.c    practice    Templates
21301079_3.txt  Documents  for_loop.c   lab2       practice.c  Videos
array.c         Downloads  great_num    lines.txt  Public
comm            folder1    great_num.c  Music     Razeen1
command         folder2    if_else      per_info   Razeen2
command.c       folder3    if_else.c    per_info.c rz3
rz10@RZ10-VirtualBox:~$
```

mv 21301079_1.txt 21301079_2.txt 21301079_3.txt Razeen1

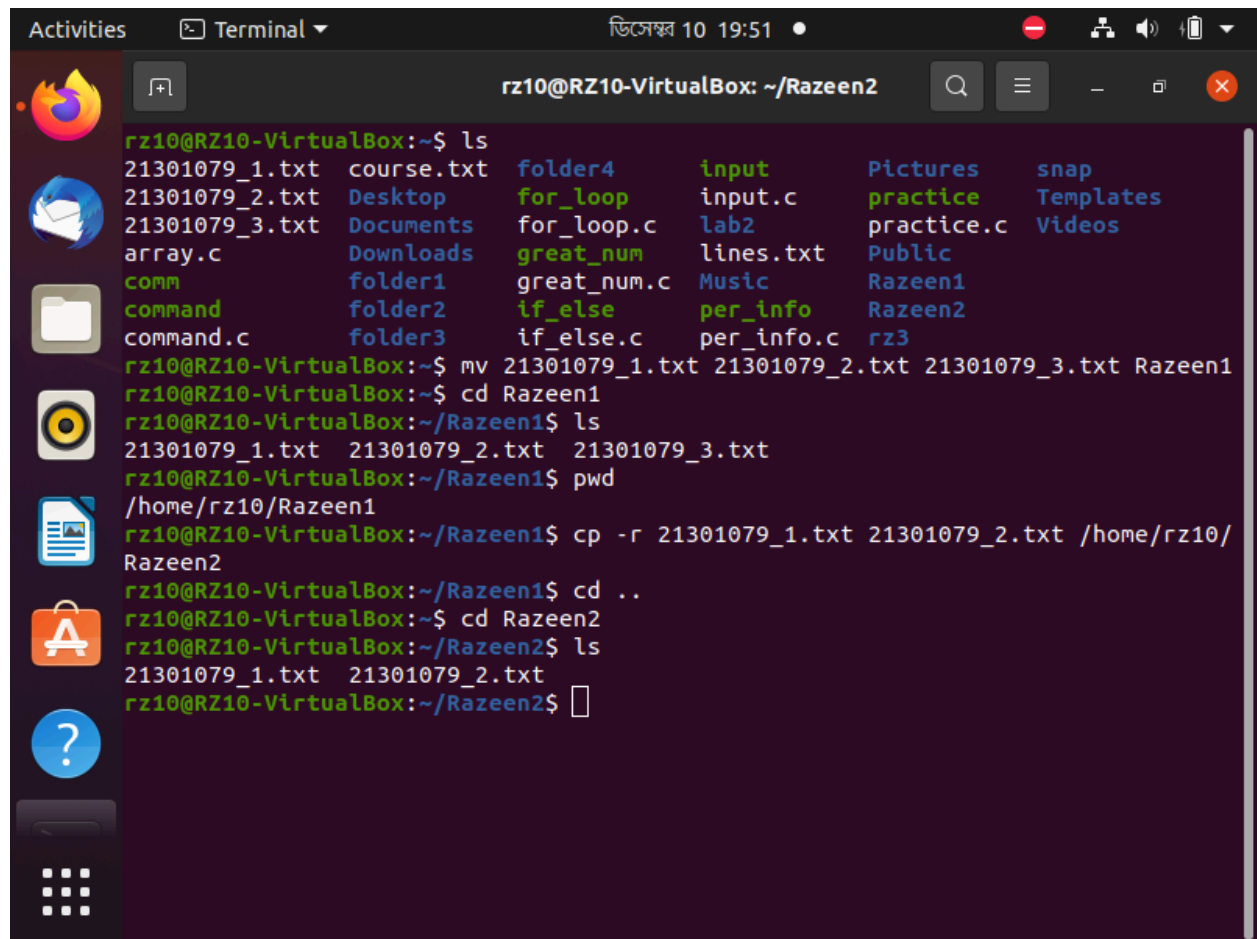


A terminal window titled "rz10@RZ10-VirtualBox: ~/Razeen1" is shown. The window has a dark background with a sidebar on the left containing icons for various applications. The terminal output shows the following commands and results:

```
rz10@RZ10-VirtualBox:~$ ls
21301079_1.txt  course.txt  folder4      input      Pictures    snap
21301079_2.txt  Desktop     for_loop     input.c    practice    Templates
21301079_3.txt  Documents  for_loop.c   lab2       practice.c  Videos
array.c         Downloads  great_num    lines.txt  Public
comm           folder1    great_num.c  Music      Razeen1
command        folder2    if_else      per_info   Razeen2
command.c      folder3    if_else.c    per_info.c rz3

rz10@RZ10-VirtualBox:~$ mv 21301079_1.txt 21301079_2.txt 21301079_3.txt Razeen1
rz10@RZ10-VirtualBox:~$ cd Razeen1
rz10@RZ10-VirtualBox:~/Razeen1$ ls
21301079_1.txt  21301079_2.txt  21301079_3.txt
rz10@RZ10-VirtualBox:~/Razeen1$
```

```
cp -r 21301079_1.txt 21301079_2.txt /home/rz10/Razeen2
```

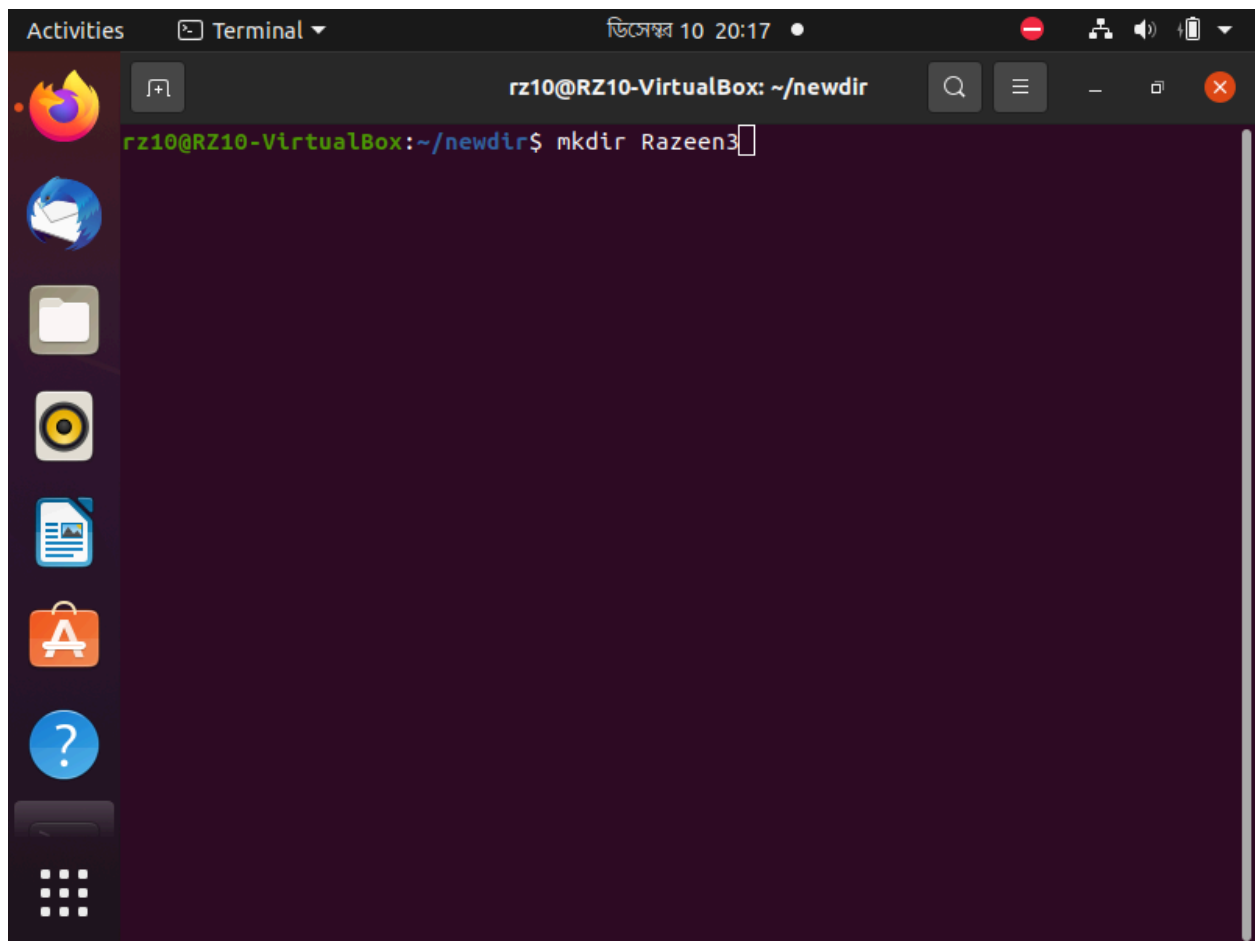


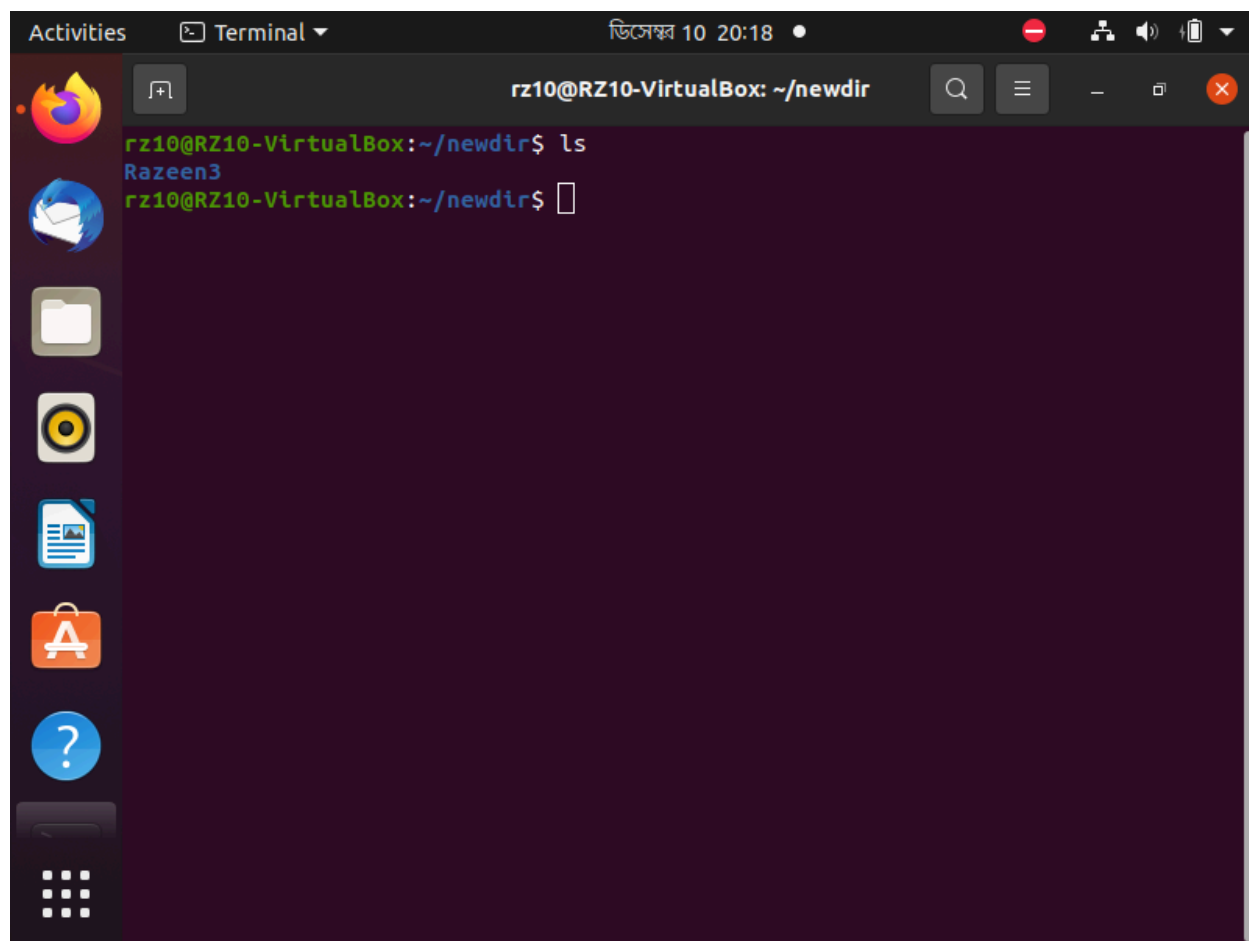
The image shows a terminal window titled "rz10@RZ10-VirtualBox: ~/Razeen2". The window has a dark theme and a sidebar on the left with various application icons. The terminal output shows the following sequence of commands and their results:

```
rz10@RZ10-VirtualBox:~$ ls
21301079_1.txt  course.txt  folder4      input      Pictures    snap
21301079_2.txt  Desktop    for_loop    input.c    practice    Templates
21301079_3.txt  Documents  for_loop.c  lab2       practice.c  Videos
array.c         Downloads  great_num   lines.txt  Public
comm            folder1    great_num.c Music       Razeen1
command         folder2    if_else     per_info   Razeen2
command.c       folder3    if_else.c   per_info.c rz3

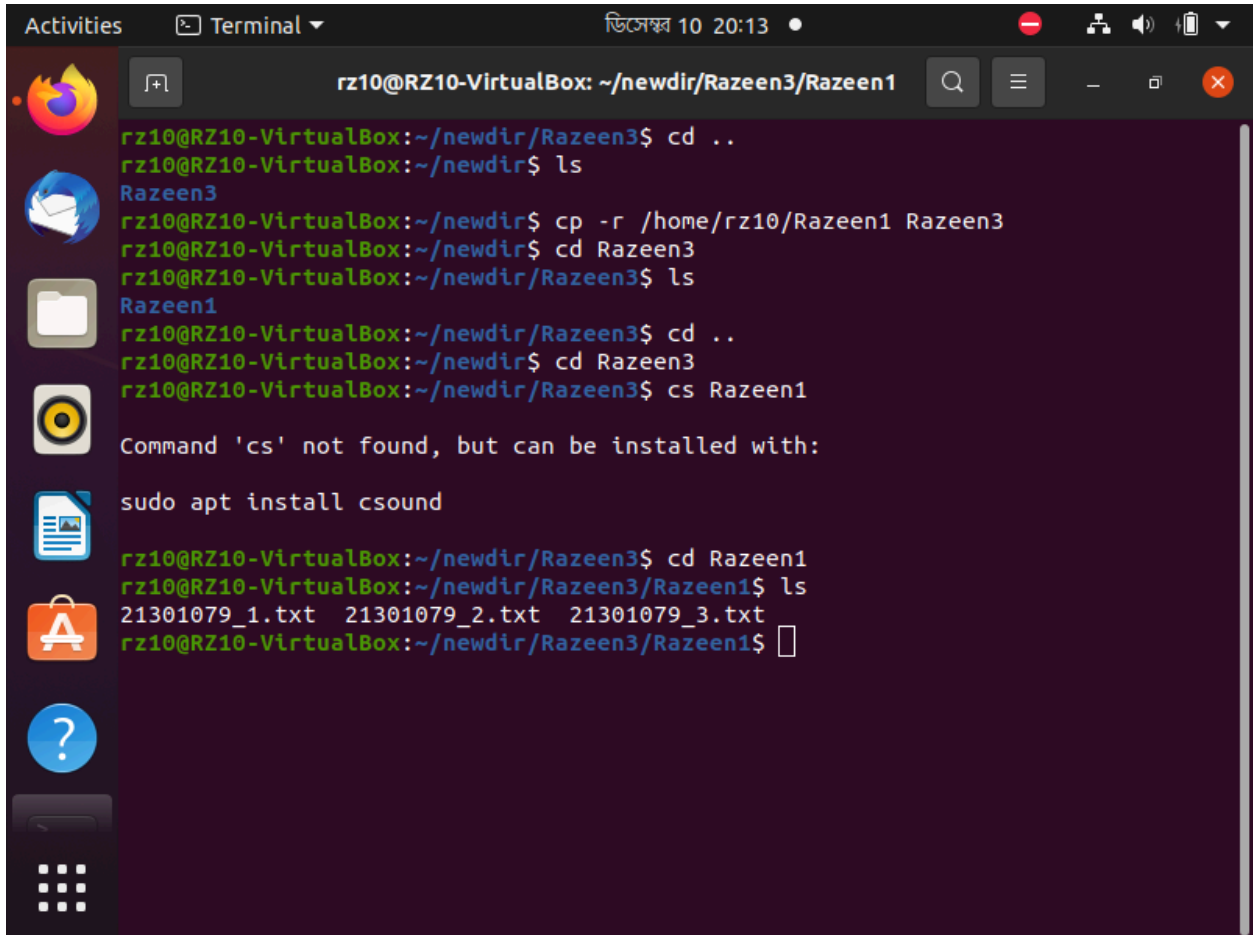
rz10@RZ10-VirtualBox:~$ mv 21301079_1.txt 21301079_2.txt 21301079_3.txt Razeen1
rz10@RZ10-VirtualBox:~$ cd Razeen1
rz10@RZ10-VirtualBox:~/Razeen1$ ls
21301079_1.txt 21301079_2.txt 21301079_3.txt
rz10@RZ10-VirtualBox:~/Razeen1$ pwd
/home/rz10/Razeen1
rz10@RZ10-VirtualBox:~/Razeen1$ cp -r 21301079_1.txt 21301079_2.txt /home/rz10/
Razeen2
rz10@RZ10-VirtualBox:~/Razeen1$ cd ..
rz10@RZ10-VirtualBox:~$ cd Razeen2
rz10@RZ10-VirtualBox:~/Razeen2$ ls
21301079_1.txt 21301079_2.txt
rz10@RZ10-VirtualBox:~/Razeen2$
```

mkdir Razeen3





cp -r /home/rz10/Razeen1 Razeen3



A terminal window titled "rz10@RZ10-VirtualBox: ~/newdir/Razeen3/Razeen1" is shown. The window has a dark background with light-colored text. The left sidebar contains icons for Activities, Terminal, and various applications. The terminal output shows the following commands and results:

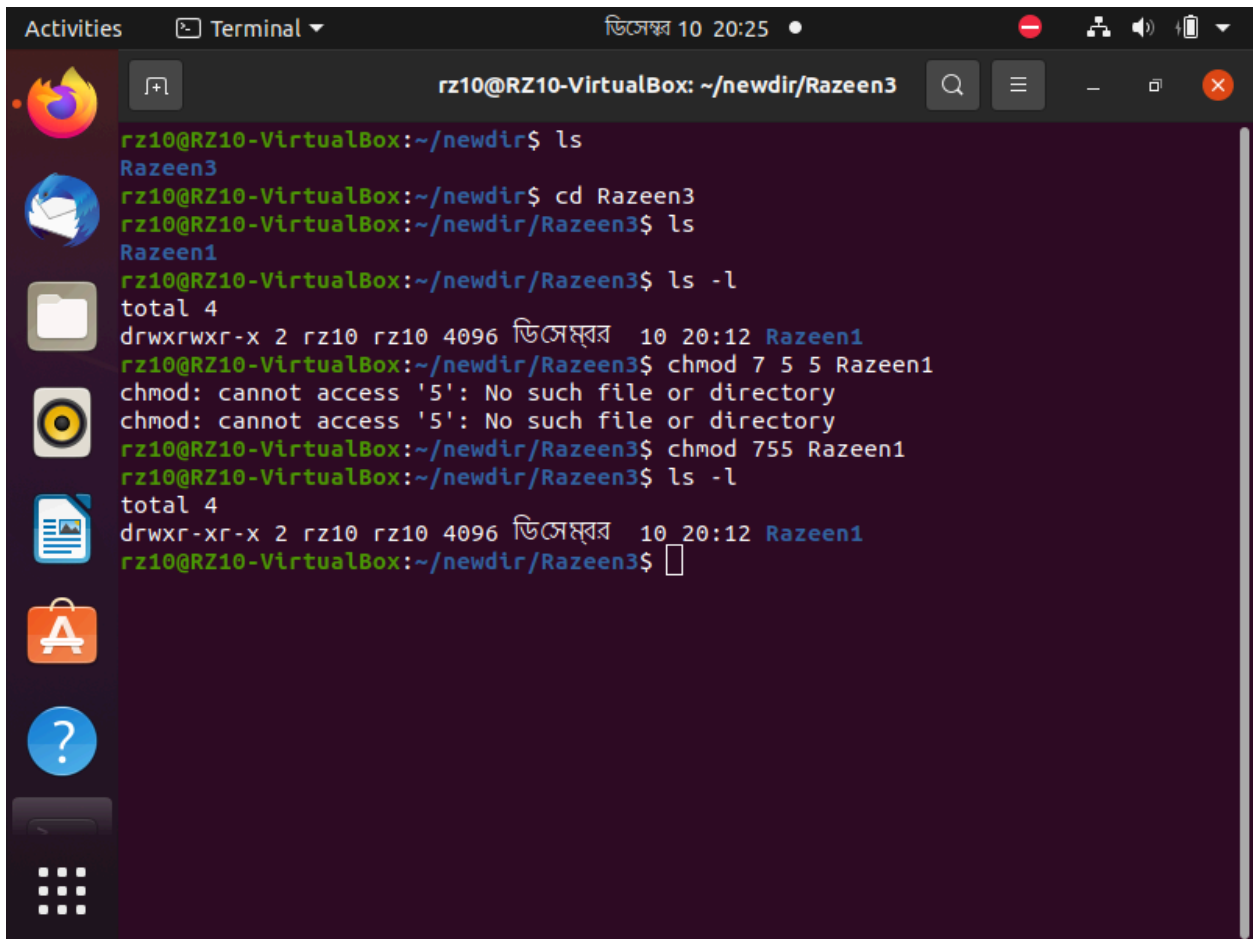
```
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ cd ..
rz10@RZ10-VirtualBox:~/newdir$ ls
Razeen3
rz10@RZ10-VirtualBox:~/newdir$ cp -r /home/rz10/Razeen1 Razeen3
rz10@RZ10-VirtualBox:~/newdir$ cd Razeen3
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ ls
Razeen1
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ cd ..
rz10@RZ10-VirtualBox:~/newdir$ cd Razeen3
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ cs Razeen1

Command 'cs' not found, but can be installed with:

sudo apt install csound

rz10@RZ10-VirtualBox:~/newdir/Razeen3$ cd Razeen1
rz10@RZ10-VirtualBox:~/newdir/Razeen3/Razeen1$ ls
21301079_1.txt 21301079_2.txt 21301079_3.txt
rz10@RZ10-VirtualBox:~/newdir/Razeen3/Razeen1$
```

chmod 755 Razeen1

A terminal window titled "rz10@RZ10-VirtualBox: ~/newdir/Razeen3" with a search icon, menu icon, and window control buttons. The terminal shows a series of commands and their outputs. The user starts in the directory ~/newdir, lists files (showing Razeen3), changes to Razeen3, lists files (showing Razeen1), and then lists files with long format (-l). The long format output shows a file named Razeen1 with permissions drwxrwxr-x, owned by rz10, size 4096, dated Dec 10 20:12. The user then attempts to run chmod 7 5 5 Razeen1, which fails with the error "chmod: cannot access '5': No such file or directory". This is repeated for the second '5'. Finally, the user runs chmod 755 Razeen1 successfully. A final ls -l command shows the file Razeen1 with the updated permissions drwxr-xr-x.

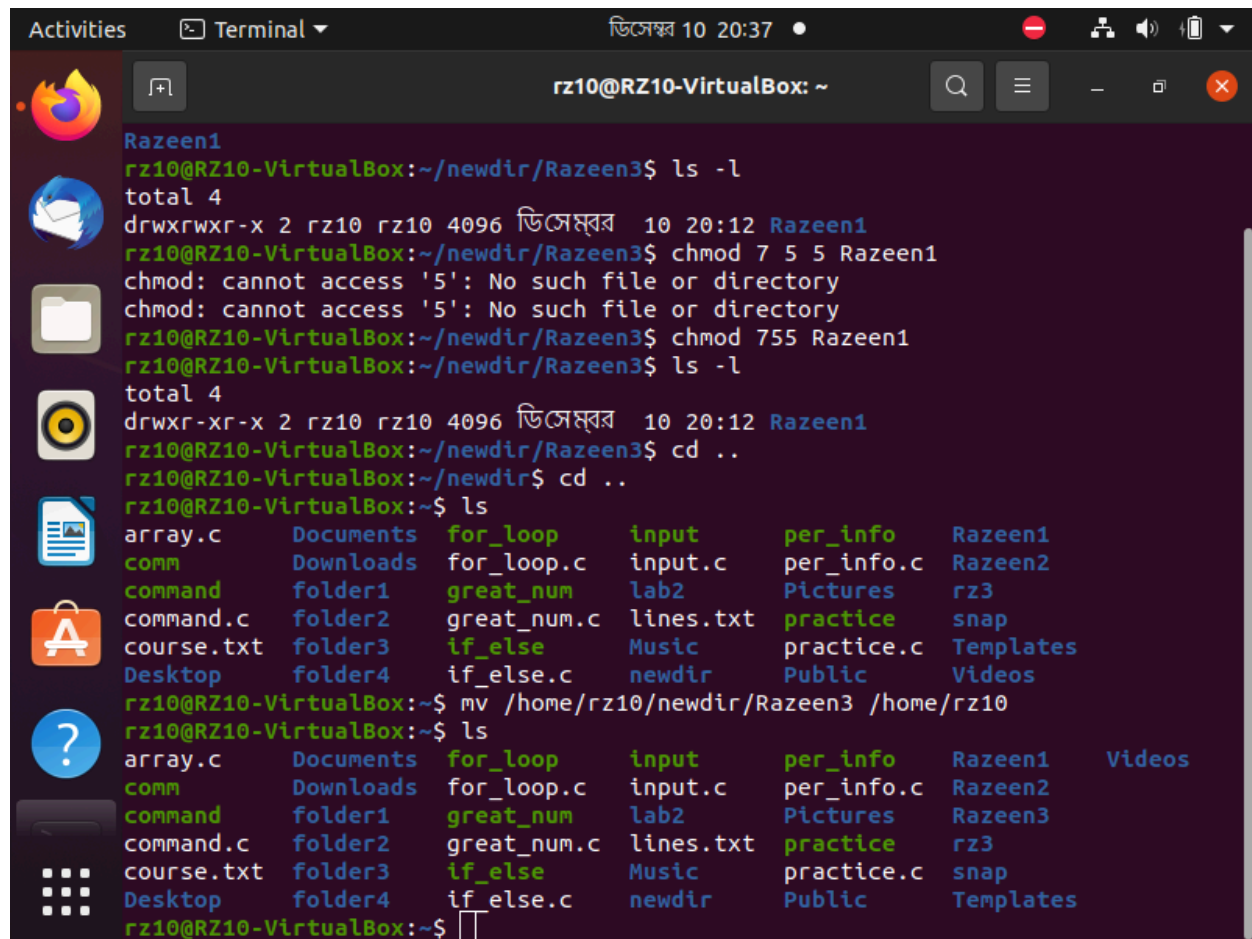
```
rz10@RZ10-VirtualBox:~/newdir$ ls
Razeen3
rz10@RZ10-VirtualBox:~/newdir$ cd Razeen3
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ ls
Razeen1
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ ls -l
total 4
drwxrwxr-x 2 rz10 rz10 4096 ডিসেম্বর 10 20:12 Razeen1
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ chmod 7 5 5 Razeen1
chmod: cannot access '5': No such file or directory
chmod: cannot access '5': No such file or directory
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ chmod 755 Razeen1
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ ls -l
total 4
drwxr-xr-x 2 rz10 rz10 4096 ডিসেম্বর 10 20:12 Razeen1
rz10@RZ10-VirtualBox:~/newdir/Razeen3$
```



```
cd ..
```

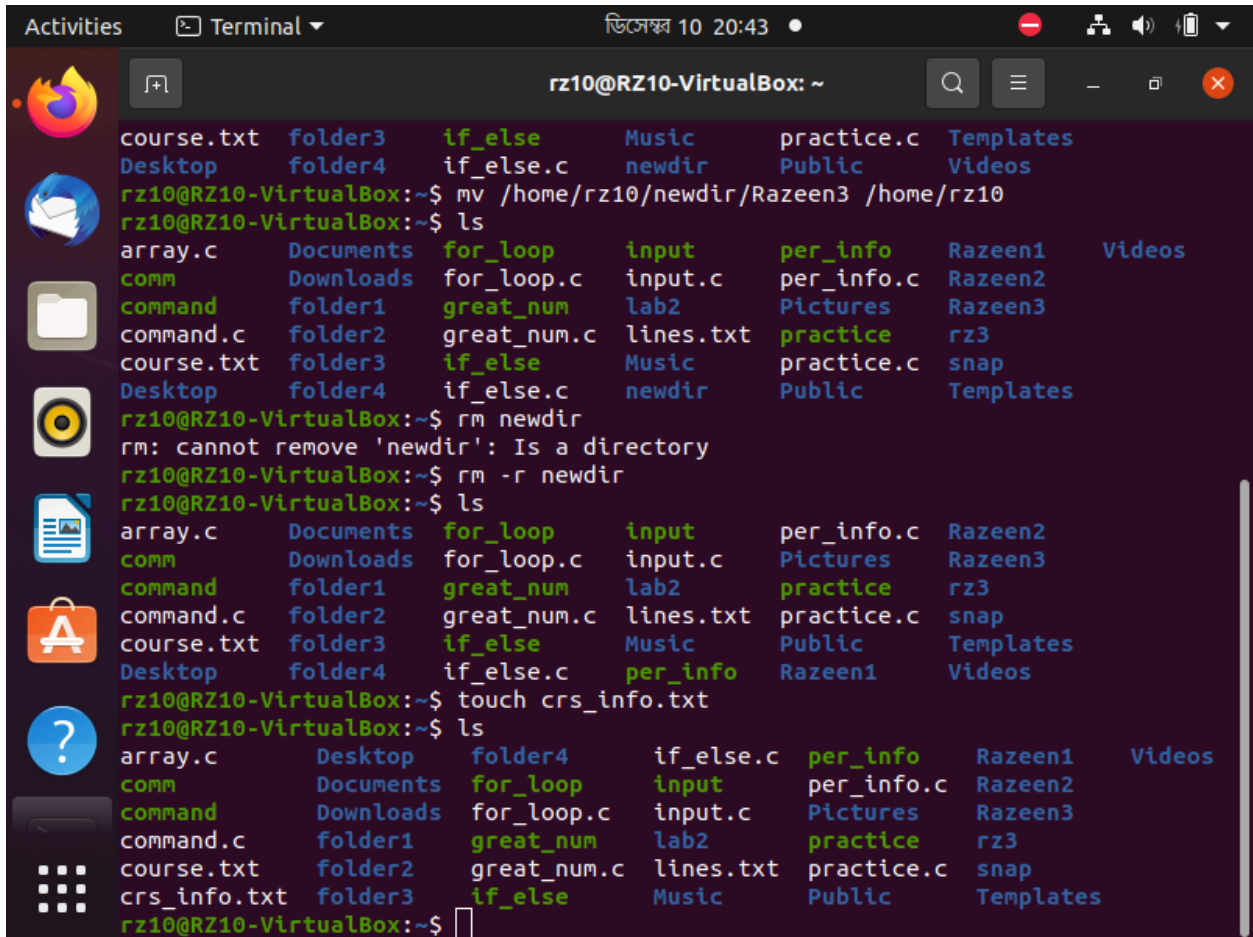
```
cd ..
```

```
mv /home/rz10/newdir/Razeen3 /home/rz10
```



```
Activities Terminal 10 20:37
rz10@RZ10-VirtualBox: ~
Razeen1
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ ls -l
total 4
drwxrwxr-x 2 rz10 rz10 4096 ডিসেম্বর 10 20:12 Razeen1
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ chmod 7 5 5 Razeen1
chmod: cannot access '5': No such file or directory
chmod: cannot access '5': No such file or directory
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ chmod 755 Razeen1
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ ls -l
total 4
drwxr-xr-x 2 rz10 rz10 4096 ডিসেম্বর 10 20:12 Razeen1
rz10@RZ10-VirtualBox:~/newdir/Razeen3$ cd ..
rz10@RZ10-VirtualBox:~/newdir$ cd ..
rz10@RZ10-VirtualBox:~$ ls
array.c    Documents  for_loop   input      per_info   Razeen1
comm       Downloads  for_loop.c input.c    per_info.c Razeen2
command    folder1    great_num  lab2       Pictures   rz3
command.c  folder2    great_num.c lines.txt  practice   snap
course.txt folder3    if_else    Music      practice.c Templates
Desktop    folder4    if_else.c  newdir     Public     Videos
rz10@RZ10-VirtualBox:~$ mv /home/rz10/newdir/Razeen3 /home/rz10
rz10@RZ10-VirtualBox:~$ ls
array.c    Documents  for_loop   input      per_info   Razeen1  Videos
comm       Downloads  for_loop.c input.c    per_info.c Razeen2
command    folder1    great_num  lab2       Pictures   Razeen3
command.c  folder2    great_num.c lines.txt  practice   rz3
course.txt folder3    if_else    Music      practice.c snap
Desktop    folder4    if_else.c  newdir     Public     Templates
rz10@RZ10-VirtualBox:~$
```

rm -r newdir



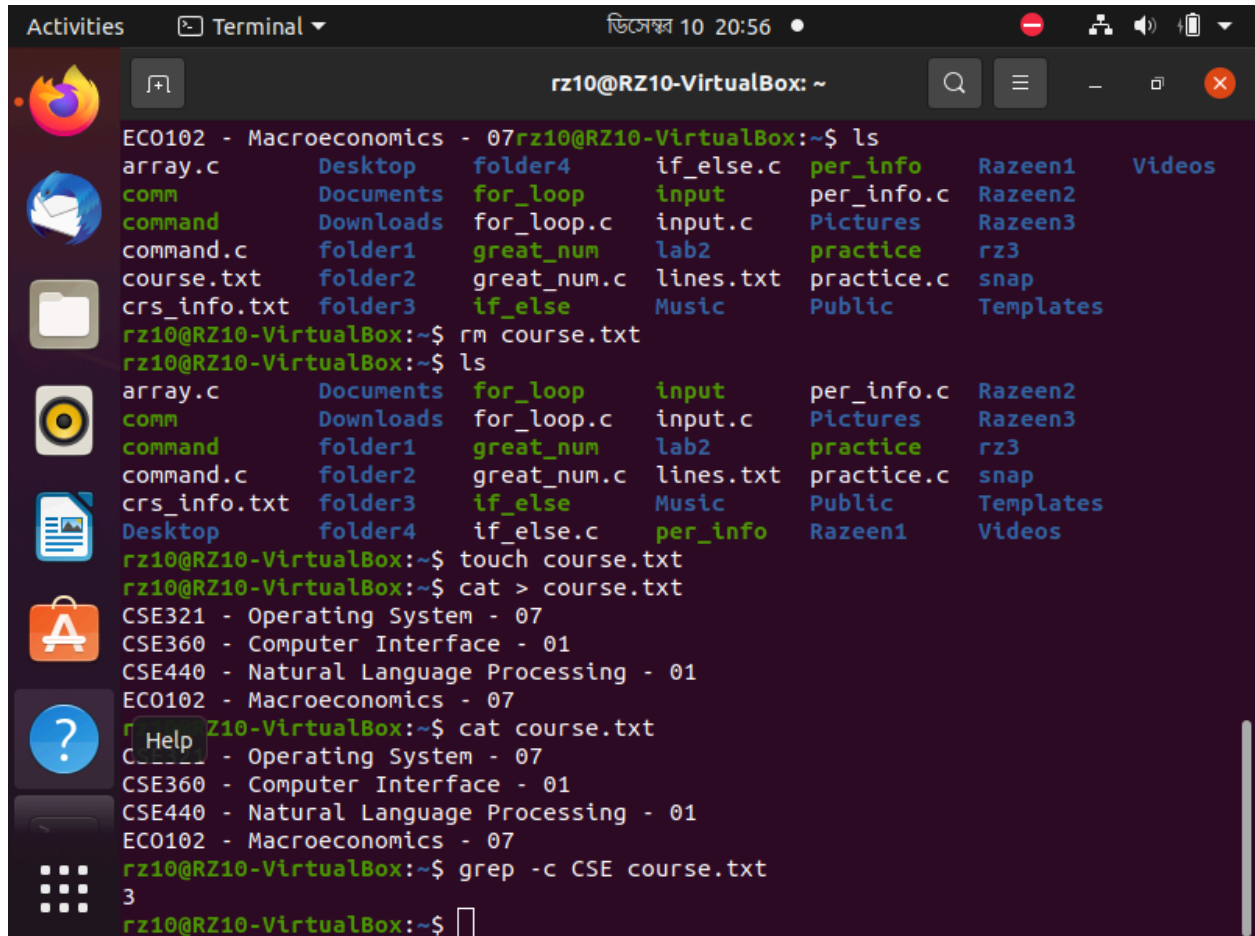
The image shows a terminal window titled "rz10@RZ10-VirtualBox: ~". The window contains the following commands and output:

```
course.txt  folder3  if_else  Music  practice.c  Templates
Desktop    folder4  if_else.c  newdir  Public  Videos
rz10@RZ10-VirtualBox:~$ mv /home/rz10/newdir/Razeen3 /home/rz10
rz10@RZ10-VirtualBox:~$ ls
array.c  Documents  for_loop  input  per_info  Razeen1  Videos
comm     Downloads  for_loop.c  input.c  per_info.c  Razeen2
command  folder1    great_num  lab2    Pictures  Razeen3
command.c  folder2  great_num.c  lines.txt  practice  rz3
course.txt  folder3  if_else  Music  practice.c  snap
Desktop    folder4  if_else.c  newdir  Public  Templates
rz10@RZ10-VirtualBox:~$ rm newdir
rm: cannot remove 'newdir': Is a directory
rz10@RZ10-VirtualBox:~$ rm -r newdir
rz10@RZ10-VirtualBox:~$ ls
array.c  Documents  for_loop  input  per_info.c  Razeen2
comm     Downloads  for_loop.c  input.c  Pictures  Razeen3
command  folder1    great_num  lab2    practice  rz3
command.c  folder2  great_num.c  lines.txt  practice.c  snap
course.txt  folder3  if_else  Music  Public  Templates
Desktop    folder4  if_else.c  per_info  Razeen1  Videos
rz10@RZ10-VirtualBox:~$ touch crs_info.txt
rz10@RZ10-VirtualBox:~$ ls
array.c  Desktop  folder4  if_else.c  per_info  Razeen1  Videos
comm     Documents  for_loop  input  per_info.c  Razeen2
command  Downloads  for_loop.c  input.c  Pictures  Razeen3
command.c  folder1    great_num  lab2    practice  rz3
course.txt  folder2  great_num.c  lines.txt  practice.c  snap
crs_info.txt  folder3  if_else  Music  Public  Templates
rz10@RZ10-VirtualBox:~$
```

touch course.txt

cat > course.txt

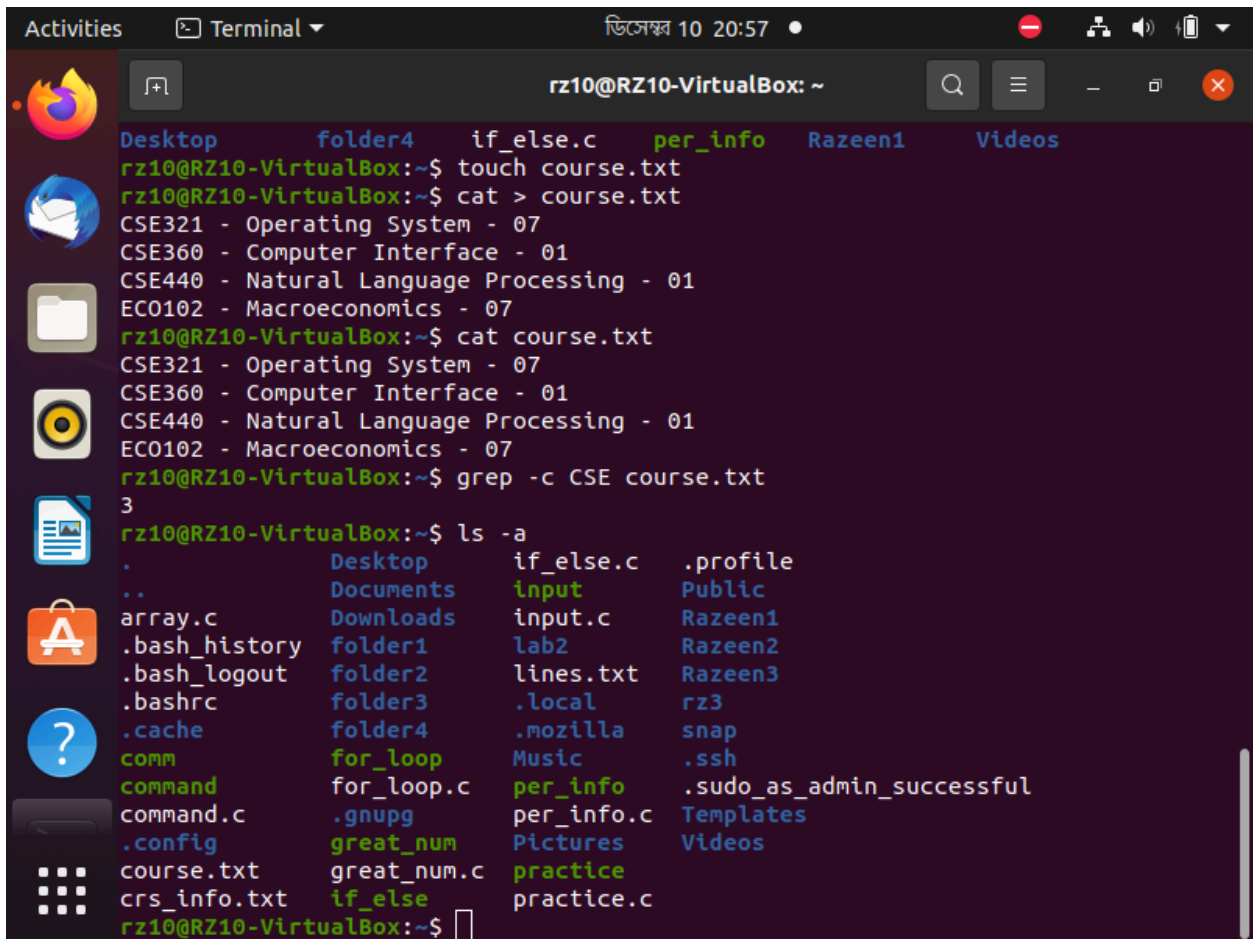
grep -c CSE course.txt



The screenshot shows a terminal window titled "rz10@RZ10-VirtualBox: ~". The terminal output is as follows:

```
EC0102 - Macroeconomics - 07
array.c      Desktop  folder4    if_else.c  per_info   Razeen1   Videos
comm         Downloads for_loop  input      per_info.c Razeen2
command      Downloads for_loop.c input.c    Pictures   Razeen3
command.c    folder1  great_num lab2        practice   rz3
course.txt   folder2  great_num lines.txt  practice.c snap
crs_info.txt folder3  if_else    Music      Public     Templates
rz10@RZ10-VirtualBox:~$ rm course.txt
rz10@RZ10-VirtualBox:~$ ls
array.c      Documents  for_loop   input      per_info.c  Razeen2
comm         Downloads  for_loop.c input.c     Pictures     Razeen3
command      Downloads  great_num  lab2        practice     rz3
command.c    folder2    great_num  lines.txt   practice.c   snap
crs_info.txt folder3    if_else    Music      Public       Templates
Desktop      folder4    if_else.c  per_info    Razeen1     Videos
rz10@RZ10-VirtualBox:~$ touch course.txt
rz10@RZ10-VirtualBox:~$ cat > course.txt
CSE321 - Operating System - 07
CSE360 - Computer Interface - 01
CSE440 - Natural Language Processing - 01
EC0102 - Macroeconomics - 07
rz10@RZ10-VirtualBox:~$ cat course.txt
CSE321 - Operating System - 07
CSE360 - Computer Interface - 01
CSE440 - Natural Language Processing - 01
EC0102 - Macroeconomics - 07
rz10@RZ10-VirtualBox:~$ grep -c CSE course.txt
3
rz10@RZ10-VirtualBox:~$
```

ls -a



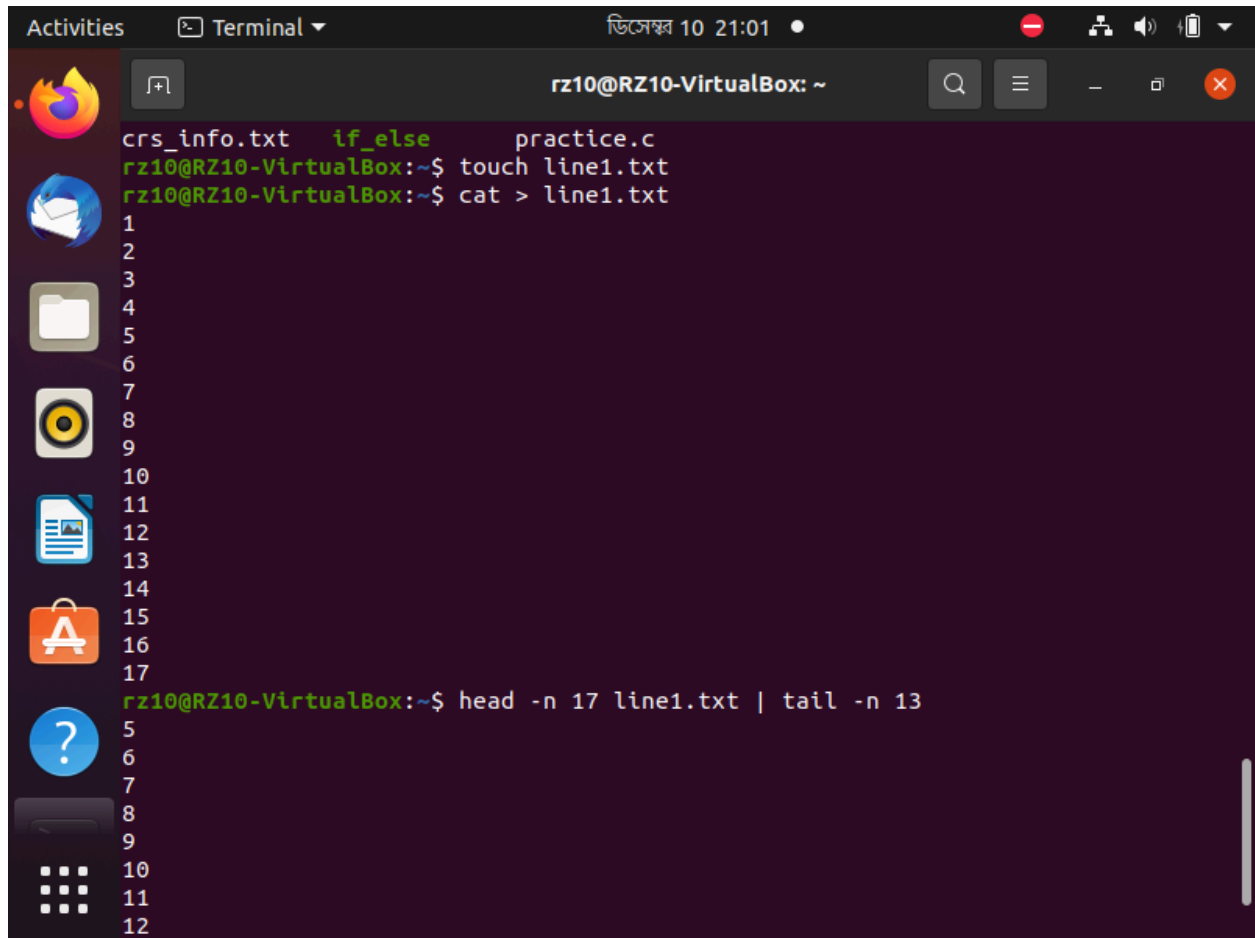
The image shows a terminal window titled "rz10@RZ10-VirtualBox: ~". The window has a dark background with light-colored text. On the left side, there is a vertical sidebar with icons for various applications: Firefox, a mail icon, a folder icon, a CD icon, a document icon, an application icon, a question mark icon, and a grid icon. The terminal output shows the following commands and results:

```
Desktop      folder4    if_else.c   per_info    Razeen1     Videos
rz10@RZ10-VirtualBox:~$ touch course.txt
rz10@RZ10-VirtualBox:~$ cat > course.txt
CSE321 - Operating System - 07
CSE360 - Computer Interface - 01
CSE440 - Natural Language Processing - 01
EC0102 - Macroeconomics - 07
rz10@RZ10-VirtualBox:~$ cat course.txt
CSE321 - Operating System - 07
CSE360 - Computer Interface - 01
CSE440 - Natural Language Processing - 01
EC0102 - Macroeconomics - 07
rz10@RZ10-VirtualBox:~$ grep -c CSE course.txt
3
rz10@RZ10-VirtualBox:~$ ls -a
.                Desktop        if_else.c      .profile
..               Documents      input          Public
Downloads        input.c        Razeen1
.bash_history     folder1        lab2           Razeen2
.bash_logout     folder2        lines.txt      Razeen3
.bashrc          folder3        .local         rz3
.cache           folder4        .mozilla       snap
comm             for_loop       Music          .ssh
command          for_loop.c     per_info       .sudo_as_admin_successful
command.c        .gnupg         per_info.c     Templates
.config          great_num      Pictures        Videos
course.txt       great_num.c    practice
crs_info.txt     if_else        practice.c
rz10@RZ10-VirtualBox:~$
```

`touch line1.txt`

`cat > line1.txt`

`head -n 17 line1.txt | tail -n 13`



The screenshot shows a terminal window titled "rz10@RZ10-VirtualBox: ~". The window has a dark purple background. On the left side, there is a vertical dock with several application icons: Firefox, a mail client, a file manager, a music player, a document viewer, an application store, a help icon, and a calculator. The terminal output shows the following commands and their results:

```
crs_info.txt  if_else  practice.c
rz10@RZ10-VirtualBox:~$ touch line1.txt
rz10@RZ10-VirtualBox:~$ cat > line1.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
rz10@RZ10-VirtualBox:~$ head -n 17 line1.txt | tail -n 13
5
6
7
8
9
10
11
12
```

Activities Terminal ডিসেম্বর 10 21:01

rz10@RZ10-VirtualBox: ~

```
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
rz10@RZ10-VirtualBox:~$ head -n 17 line1.txt | tail -n 13  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
rz10@RZ10-VirtualBox:~$
```