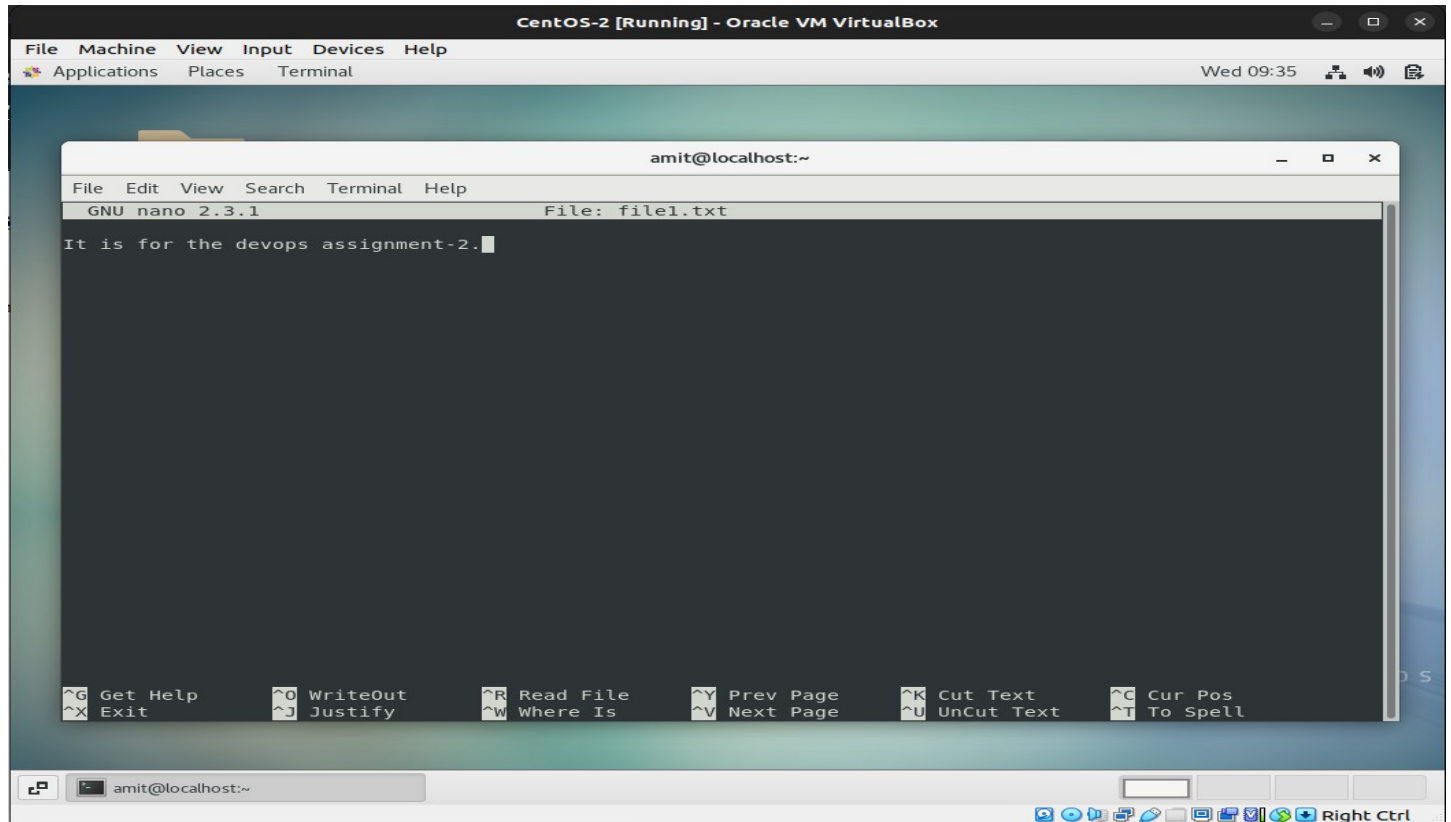


# Assignment Part-3

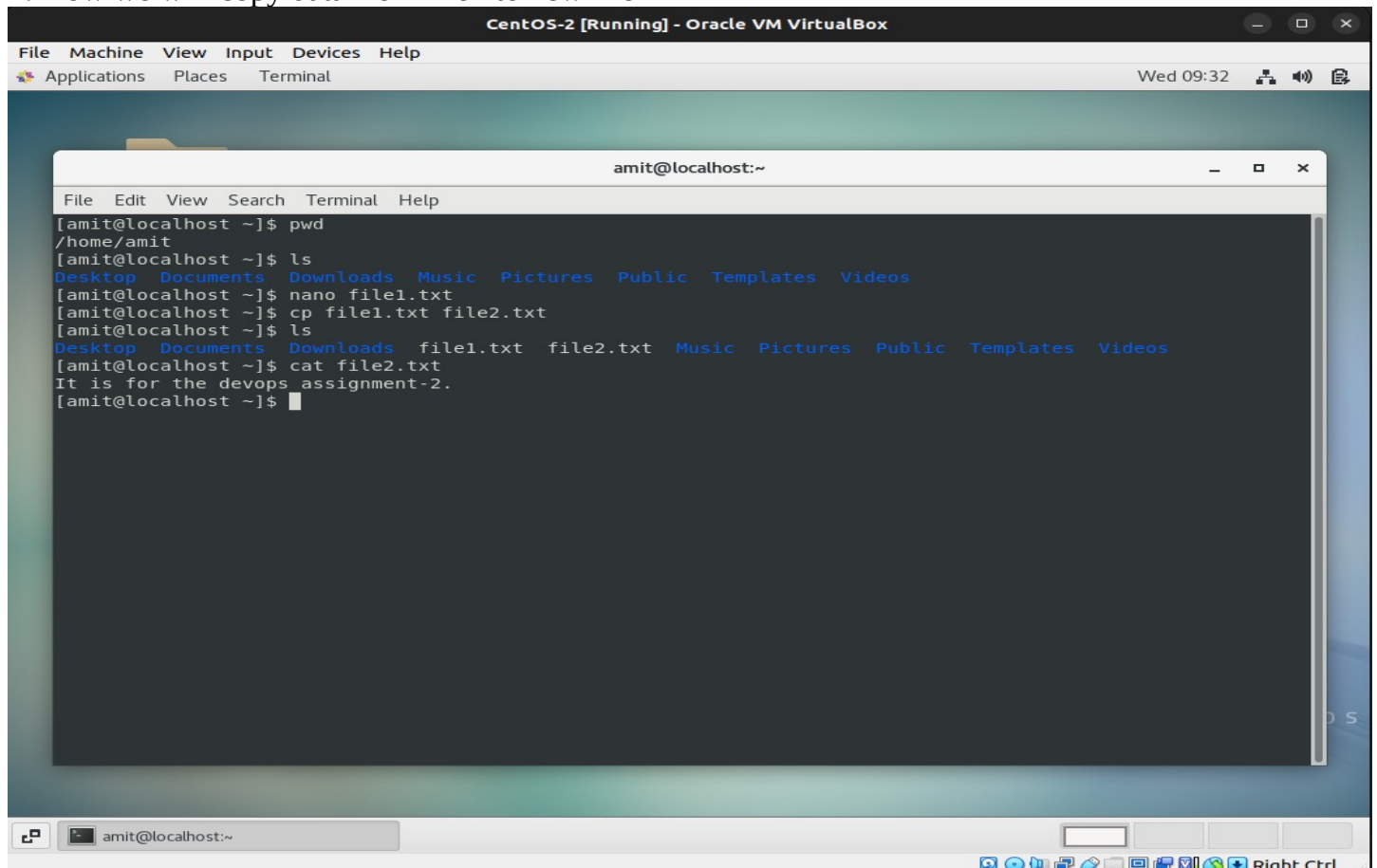
## Playing with files:

1. Create a file like nano file1.txt. Edit some data and then save the file



The screenshot shows a virtual machine window titled "CentOS-2 [Running] - Oracle VM VirtualBox". Inside the VM, a terminal window is open with the prompt "amit@localhost:~". The nano text editor is running, editing a file named "file1.txt". The editor's menu bar includes "File", "Edit", "View", "Search", "Terminal", and "Help". The status bar at the bottom of the nano window shows various keyboard shortcuts: ^G Get Help, ^O WriteOut, ^R Read File, ^Y Prev Page, ^K Cut Text, ^C Cur Pos, ^X Exit, ^J Justify, ^W Where Is, ^V Next Page, ^U UnCut Text, and ^T To Spell. The text "It is for the devops assignment-2." is visible in the editor.

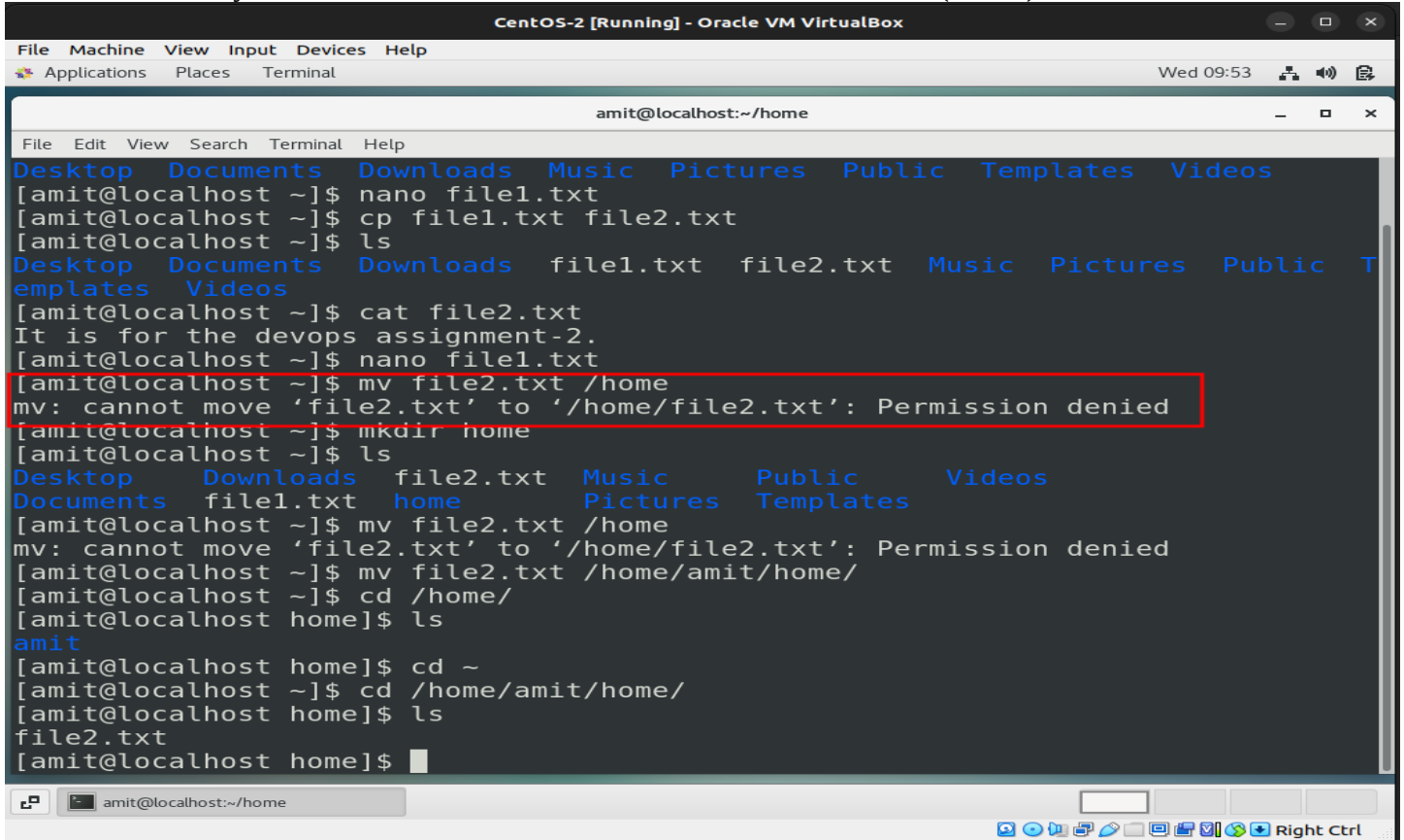
2. Now we will copy data from file1 to new file2



The screenshot shows the same virtual machine window. The terminal window now displays a series of commands and their outputs:   
[amit@localhost ~]\$ pwd  
/home/amit  
[amit@localhost ~]\$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos  
[amit@localhost ~]\$ nano file1.txt  
[amit@localhost ~]\$ cp file1.txt file2.txt  
[amit@localhost ~]\$ ls  
Desktop Documents Downloads file1.txt file2.txt Music Pictures Public Templates Videos  
[amit@localhost ~]\$ cat file2.txt  
It is for the devops assignment-2.  
[amit@localhost ~]\$

3. Now we will move the file2.txt to new folder /home

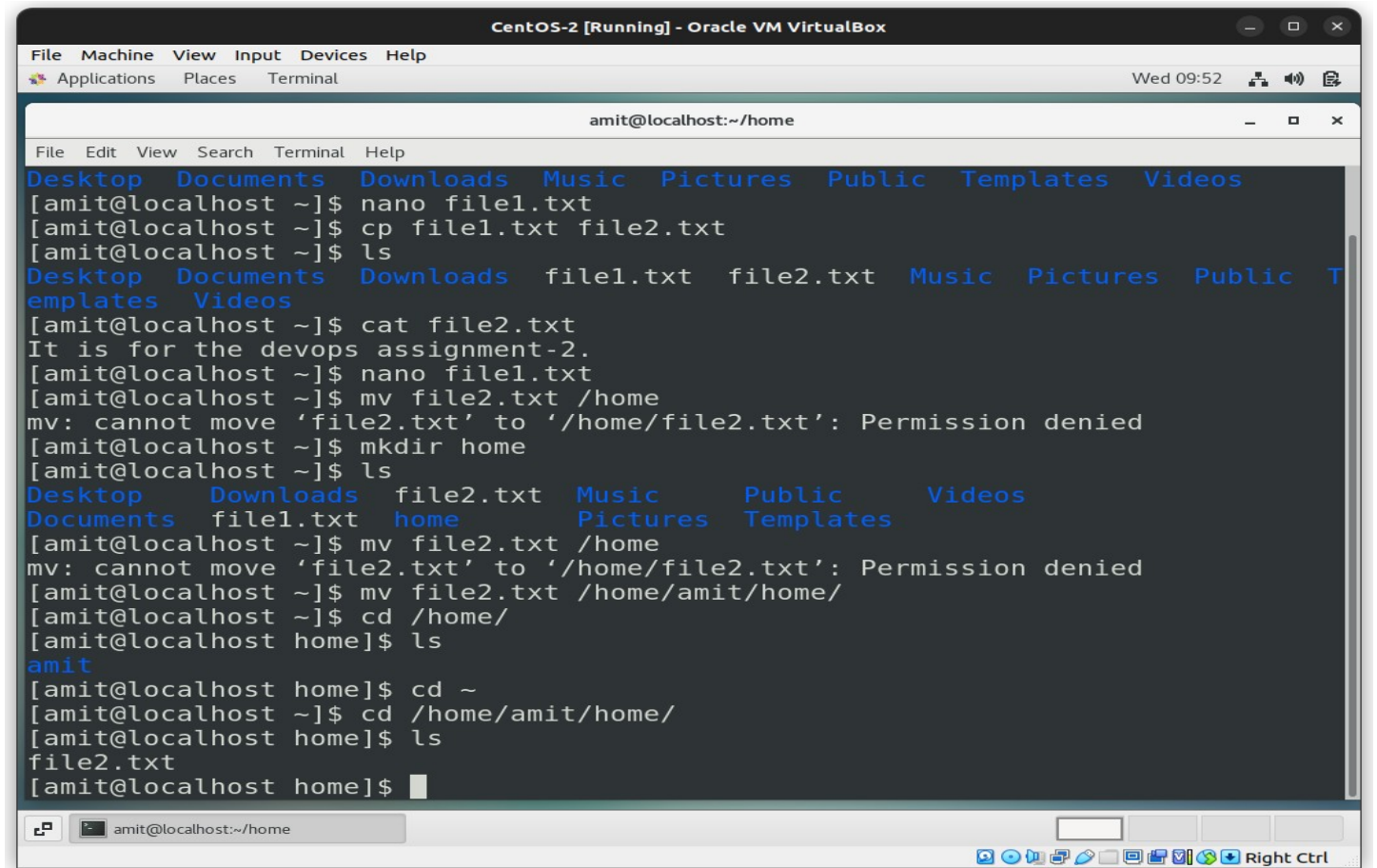
Ans: If I understand correctly, '/home' directory is system '/home' directory. In that case can not be moved to the /home directory. Permission denied. The command must be run as sudo(admin).



```
CentOS-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
Wed 09:53

amit@localhost:~/home
File Edit View Search Terminal Help
Desktop Documents Downloads Music Pictures Public Templates Videos
[amit@localhost ~]$ nano file1.txt
[amit@localhost ~]$ cp file1.txt file2.txt
[amit@localhost ~]$ ls
Desktop Documents Downloads file1.txt file2.txt Music Pictures Public T
emplates Videos
[amit@localhost ~]$ cat file2.txt
It is for the devops assignment-2.
[amit@localhost ~]$ nano file1.txt
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mkdir home
[amit@localhost ~]$ ls
Desktop Downloads file2.txt Music Public Videos
Documents file1.txt home Pictures Templates
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mv file2.txt /home/amit/home/
[amit@localhost ~]$ cd /home/
[amit@localhost home]$ ls
amit
[amit@localhost home]$ cd ~
[amit@localhost ~]$ cd /home/amit/home/
[amit@localhost home]$ ls
file2.txt
[amit@localhost home]$
```

I assume you want us to create a new folder with a name 'home'. And then run the command  
=> mv file2.txt /home/amit/home

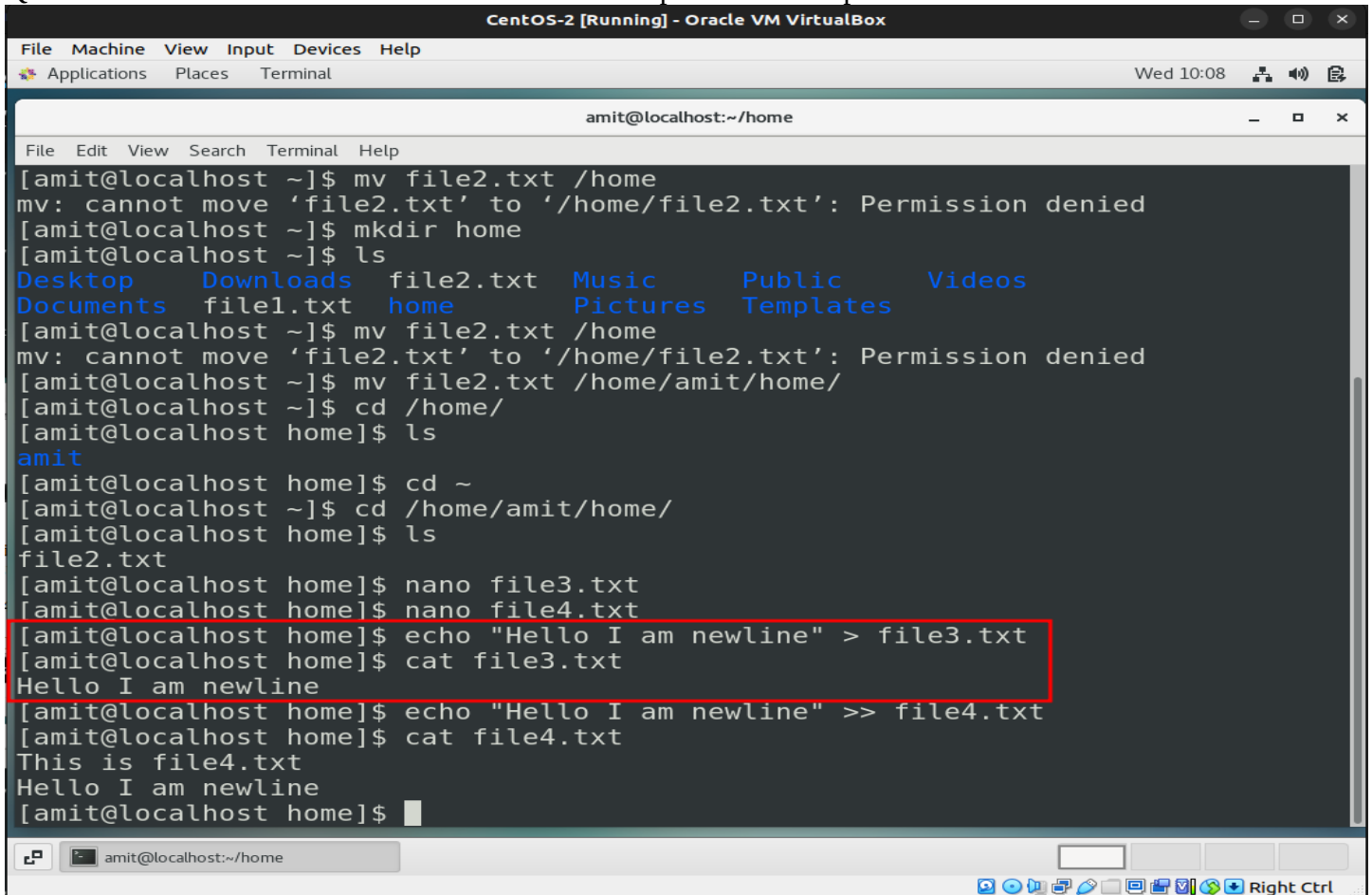


```
CentOS-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
Wed 09:52

amit@localhost:~/home
File Edit View Search Terminal Help
Desktop Documents Downloads Music Pictures Public Templates Videos
[amit@localhost ~]$ nano file1.txt
[amit@localhost ~]$ cp file1.txt file2.txt
[amit@localhost ~]$ ls
Desktop Documents Downloads file1.txt file2.txt Music Pictures Public T
emplates Videos
[amit@localhost ~]$ cat file2.txt
It is for the devops assignment-2.
[amit@localhost ~]$ nano file1.txt
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mkdir home
[amit@localhost ~]$ ls
Desktop Downloads file2.txt Music Public Videos
Documents file1.txt home Pictures Templates
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mv file2.txt /home/amit/home/
[amit@localhost ~]$ cd /home/
[amit@localhost home]$ ls
amit
[amit@localhost home]$ cd ~
[amit@localhost ~]$ cd /home/amit/home/
[amit@localhost home]$ ls
file2.txt
[amit@localhost home]$
```

4: Then we create a new file3.txt and file4.txt in home directory and add content in it.

Q: Now do echo "Hello I am newline" > file3.txt and provide the output of file3.txt

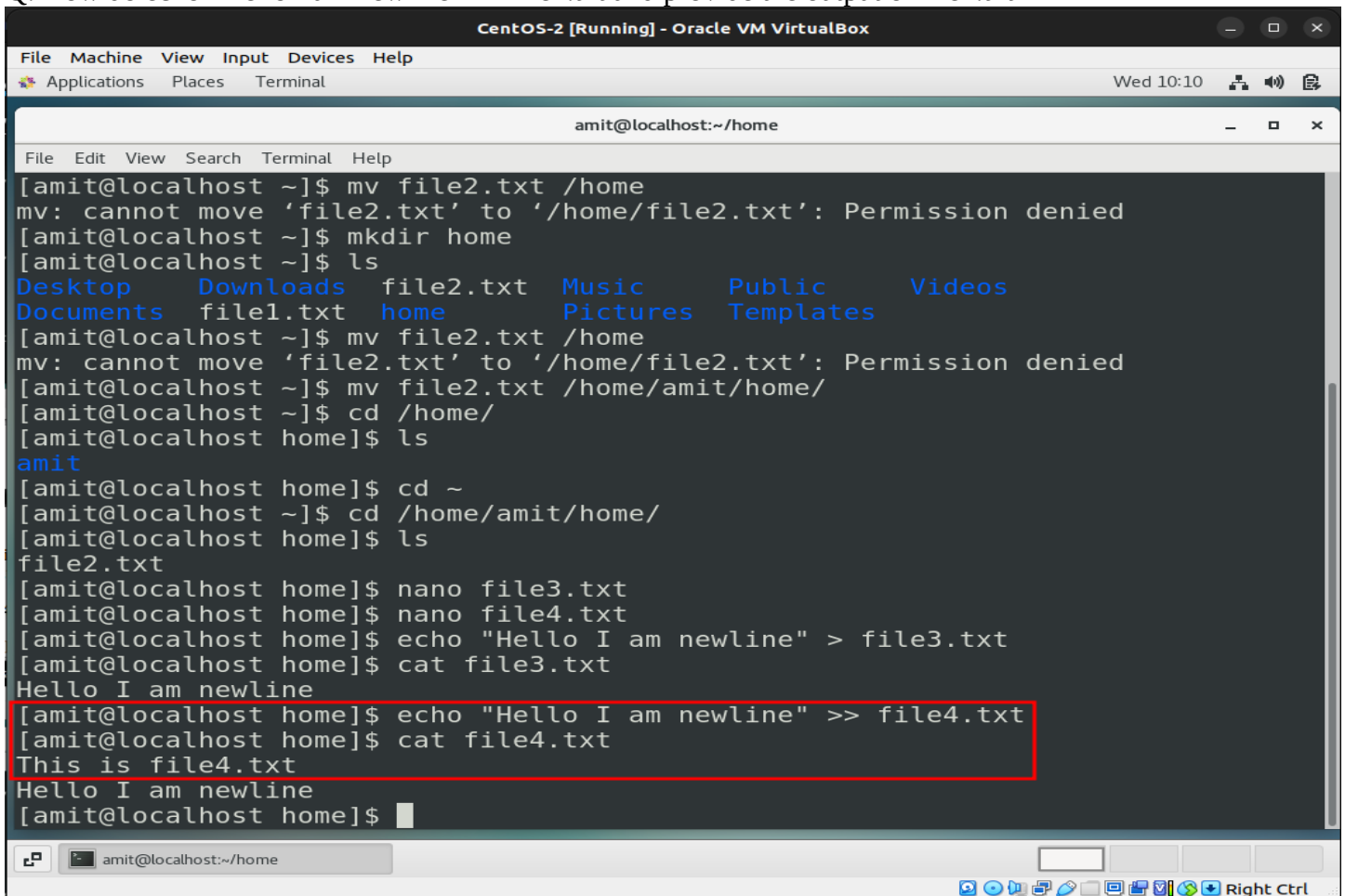


The screenshot shows a terminal window titled "CentOS-2 [Running] - Oracle VM VirtualBox". The user is logged in as "amit@localhost" in the directory "/home". The terminal shows the following commands and output:

```
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mkdir home
[amit@localhost ~]$ ls
Desktop  Downloads  file2.txt  Music      Public      Videos
Documents  file1.txt  home      Pictures   Templates
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mv file2.txt /home/amit/home/
[amit@localhost ~]$ cd /home/
[amit@localhost home]$ ls
amit
[amit@localhost home]$ cd ~
[amit@localhost ~]$ cd /home/amit/home/
[amit@localhost home]$ ls
file2.txt
[amit@localhost home]$ nano file3.txt
[amit@localhost home]$ nano file4.txt
[amit@localhost home]$ echo "Hello I am newline" > file3.txt
[amit@localhost home]$ cat file3.txt
Hello I am newline
[amit@localhost home]$ echo "Hello I am newline" >> file4.txt
[amit@localhost home]$ cat file4.txt
This is file4.txt
Hello I am newline
[amit@localhost home]$
```

The commands `echo "Hello I am newline" > file3.txt` and `cat file3.txt` are highlighted with a red box. The output of `cat file3.txt` is "Hello I am newline".

Q: Now do echo "Hello I am newline" >> file4.txt and provide the output of file4.txt



The screenshot shows a terminal window titled "CentOS-2 [Running] - Oracle VM VirtualBox". The user is logged in as "amit@localhost" in the directory "/home". The terminal shows the following commands and output:

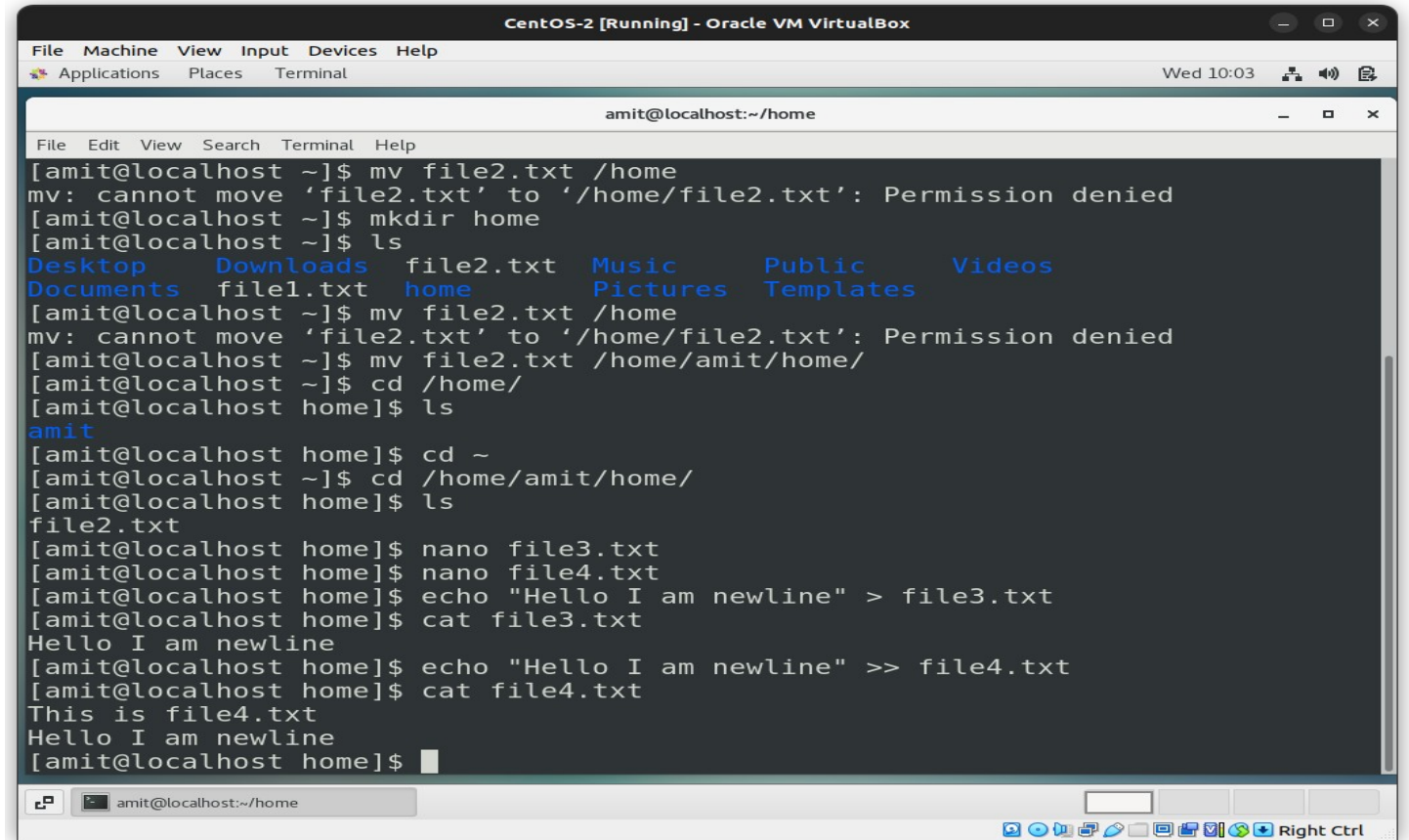
```
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mkdir home
[amit@localhost ~]$ ls
Desktop  Downloads  file2.txt  Music      Public      Videos
Documents  file1.txt  home      Pictures   Templates
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mv file2.txt /home/amit/home/
[amit@localhost ~]$ cd /home/
[amit@localhost home]$ ls
amit
[amit@localhost home]$ cd ~
[amit@localhost ~]$ cd /home/amit/home/
[amit@localhost home]$ ls
file2.txt
[amit@localhost home]$ nano file3.txt
[amit@localhost home]$ nano file4.txt
[amit@localhost home]$ echo "Hello I am newline" > file3.txt
[amit@localhost home]$ cat file3.txt
Hello I am newline
[amit@localhost home]$ echo "Hello I am newline" >> file4.txt
[amit@localhost home]$ cat file4.txt
This is file4.txt
Hello I am newline
[amit@localhost home]$
```

The commands `echo "Hello I am newline" >> file4.txt` and `cat file4.txt` are highlighted with a red box. The output of `cat file4.txt` is "This is file4.txt" followed by "Hello I am newline".

Q: Tell the different between both step you follow and the reason behind it.

Ans: '>' redirection operator will overwrite the existing content with the new content.

Whereas '>>' redirection operator will appends the new content at the end of the existing content.



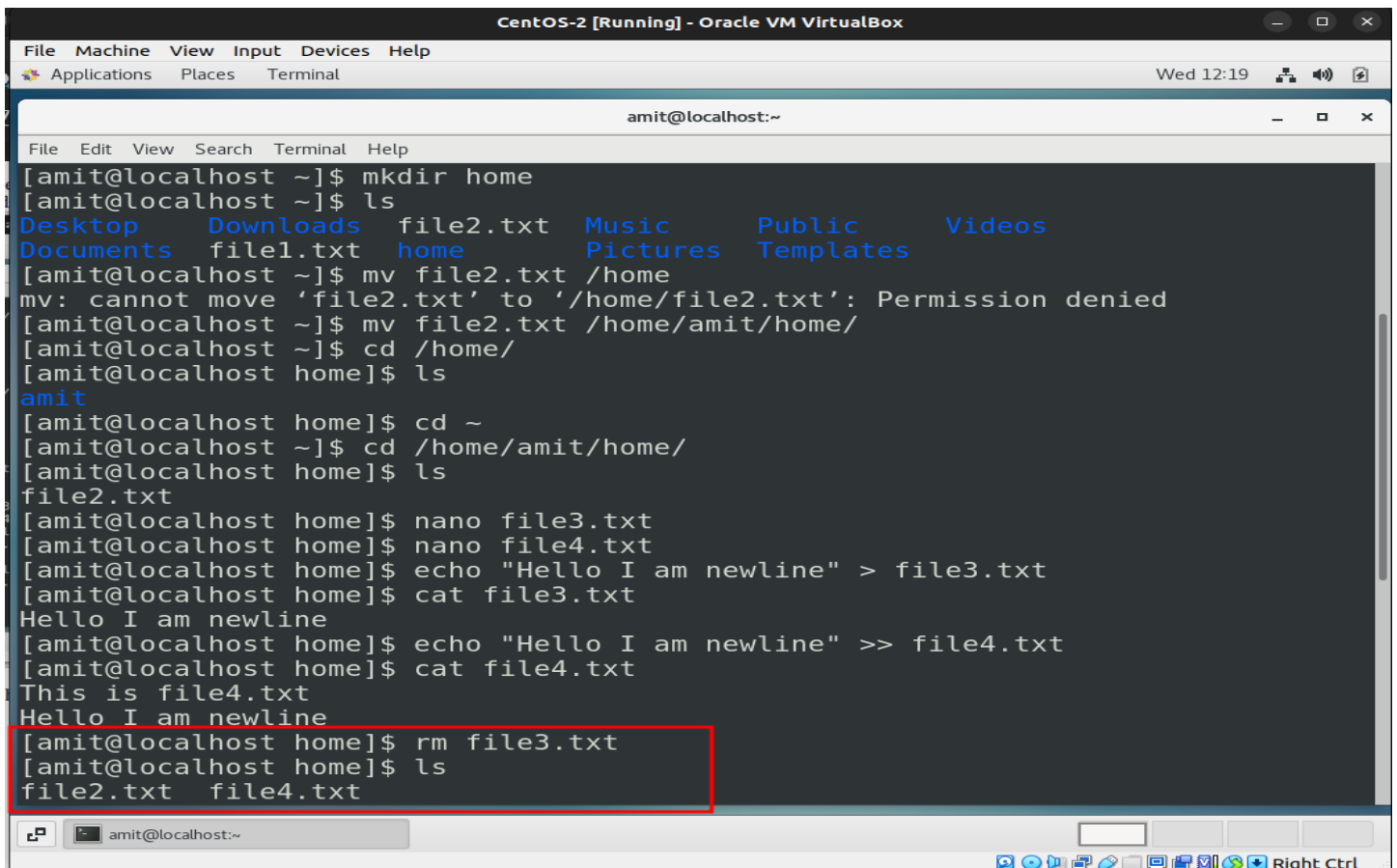
```
CentOS-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
Wed 10:03

amit@localhost:~/home

File Edit View Search Terminal Help
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mkdir home
[amit@localhost ~]$ ls
Desktop Downloads file2.txt Music Public Videos
Documents file1.txt home Pictures Templates
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mv file2.txt /home/amit/home/
[amit@localhost ~]$ cd /home/
[amit@localhost home]$ ls
amit
[amit@localhost home]$ cd ~
[amit@localhost ~]$ cd /home/amit/home/
[amit@localhost home]$ ls
file2.txt
[amit@localhost home]$ nano file3.txt
[amit@localhost home]$ nano file4.txt
[amit@localhost home]$ echo "Hello I am newline" > file3.txt
[amit@localhost home]$ cat file3.txt
Hello I am newline
[amit@localhost home]$ echo "Hello I am newline" >> file4.txt
[amit@localhost home]$ cat file4.txt
This is file4.txt
Hello I am newline
[amit@localhost home]$
```

5: For remove a file or directory you can use the below two commands

Q: To delete a file – rm <any\_filename>



```
CentOS-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
Wed 12:19

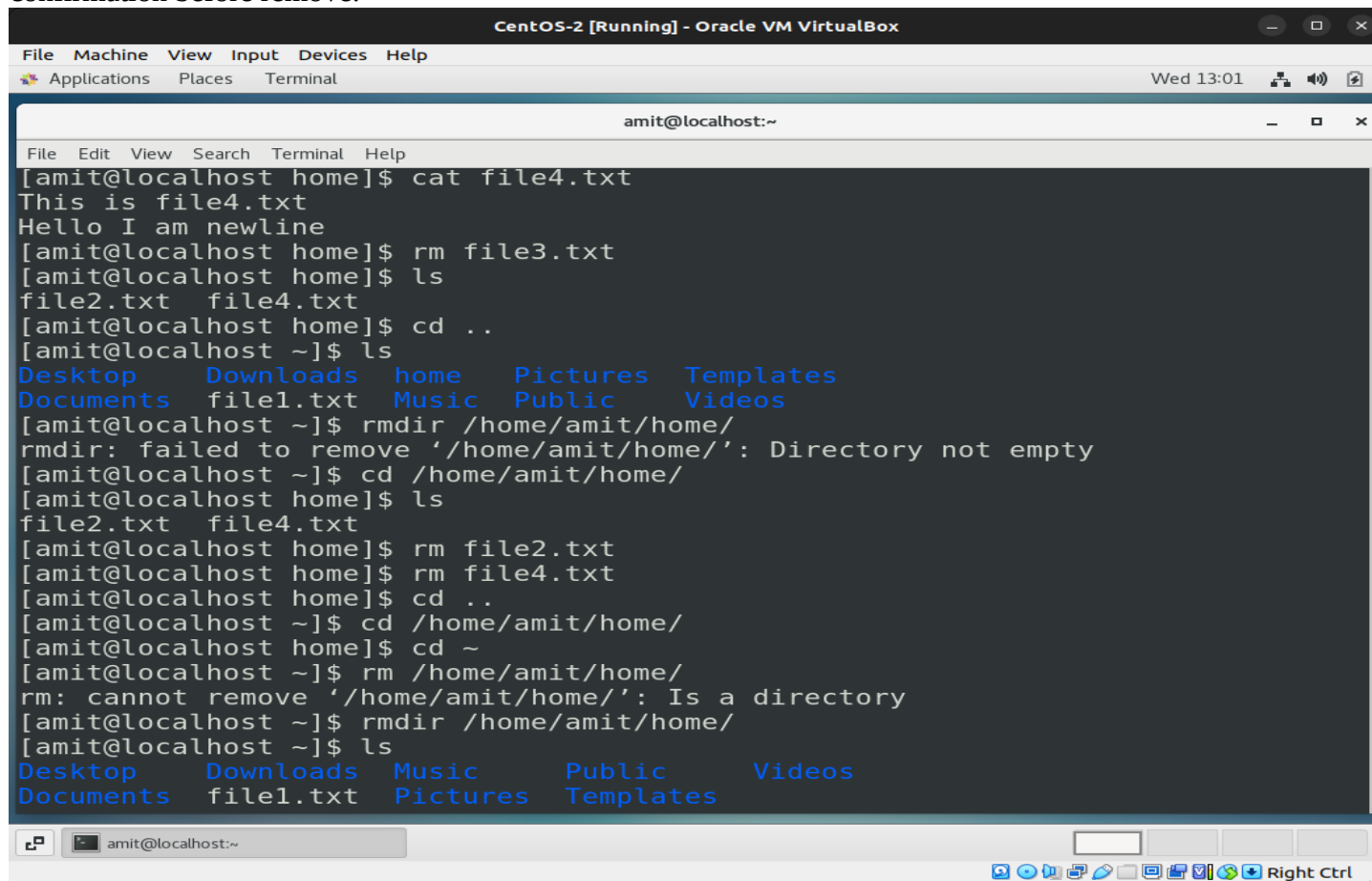
amit@localhost:~

File Edit View Search Terminal Help
[amit@localhost ~]$ mkdir home
[amit@localhost ~]$ ls
Desktop Downloads file2.txt Music Public Videos
Documents file1.txt home Pictures Templates
[amit@localhost ~]$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
[amit@localhost ~]$ mv file2.txt /home/amit/home/
[amit@localhost ~]$ cd /home/
[amit@localhost home]$ ls
amit
[amit@localhost home]$ cd ~
[amit@localhost ~]$ cd /home/amit/home/
[amit@localhost home]$ ls
file2.txt
[amit@localhost home]$ nano file3.txt
[amit@localhost home]$ nano file4.txt
[amit@localhost home]$ echo "Hello I am newline" > file3.txt
[amit@localhost home]$ cat file3.txt
Hello I am newline
[amit@localhost home]$ echo "Hello I am newline" >> file4.txt
[amit@localhost home]$ cat file4.txt
This is file4.txt
Hello I am newline
[amit@localhost home]$ rm file3.txt
[amit@localhost home]$ ls
file2.txt file4.txt
```



Q: To delete a directory – rmdir <any\_directoryname>

Ans: This command will remove if the directory is empty otherwise one need to use ‘-r’ option. It will ask confirmation before remove.



```
CentOS-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
Wed 13:01

amit@localhost:~
File Edit View Search Terminal Help
[amit@localhost home]$ cat file4.txt
This is file4.txt
Hello I am newline
[amit@localhost home]$ rm file3.txt
[amit@localhost home]$ ls
file2.txt  file4.txt
[amit@localhost home]$ cd ..
[amit@localhost ~]$ ls
Desktop  Downloads  home  Pictures  Templates
Documents  file1.txt  Music  Public  Videos
[amit@localhost ~]$ rmdir /home/amit/home/
rmdir: failed to remove '/home/amit/home/': Directory not empty
[amit@localhost ~]$ cd /home/amit/home/
[amit@localhost home]$ ls
file2.txt  file4.txt
[amit@localhost home]$ rm file2.txt
[amit@localhost home]$ rm file4.txt
[amit@localhost home]$ cd ..
[amit@localhost ~]$ cd /home/amit/home/
[amit@localhost home]$ cd ~
[amit@localhost ~]$ rm /home/amit/home/
rm: cannot remove '/home/amit/home/': Is a directory
[amit@localhost ~]$ rmdir /home/amit/home/
[amit@localhost ~]$ ls
Desktop  Downloads  Music  Public  Videos
Documents  file1.txt  Pictures  Templates
```