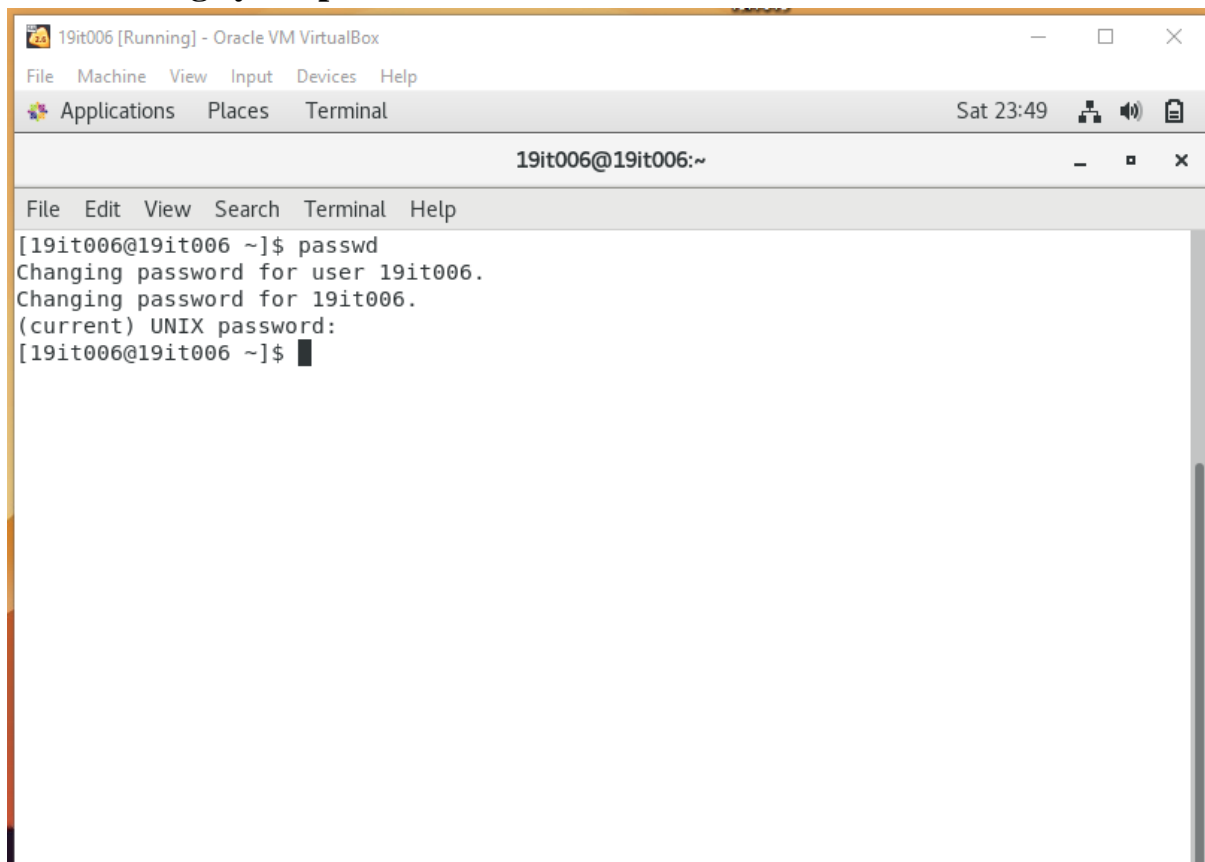


## Practical.02

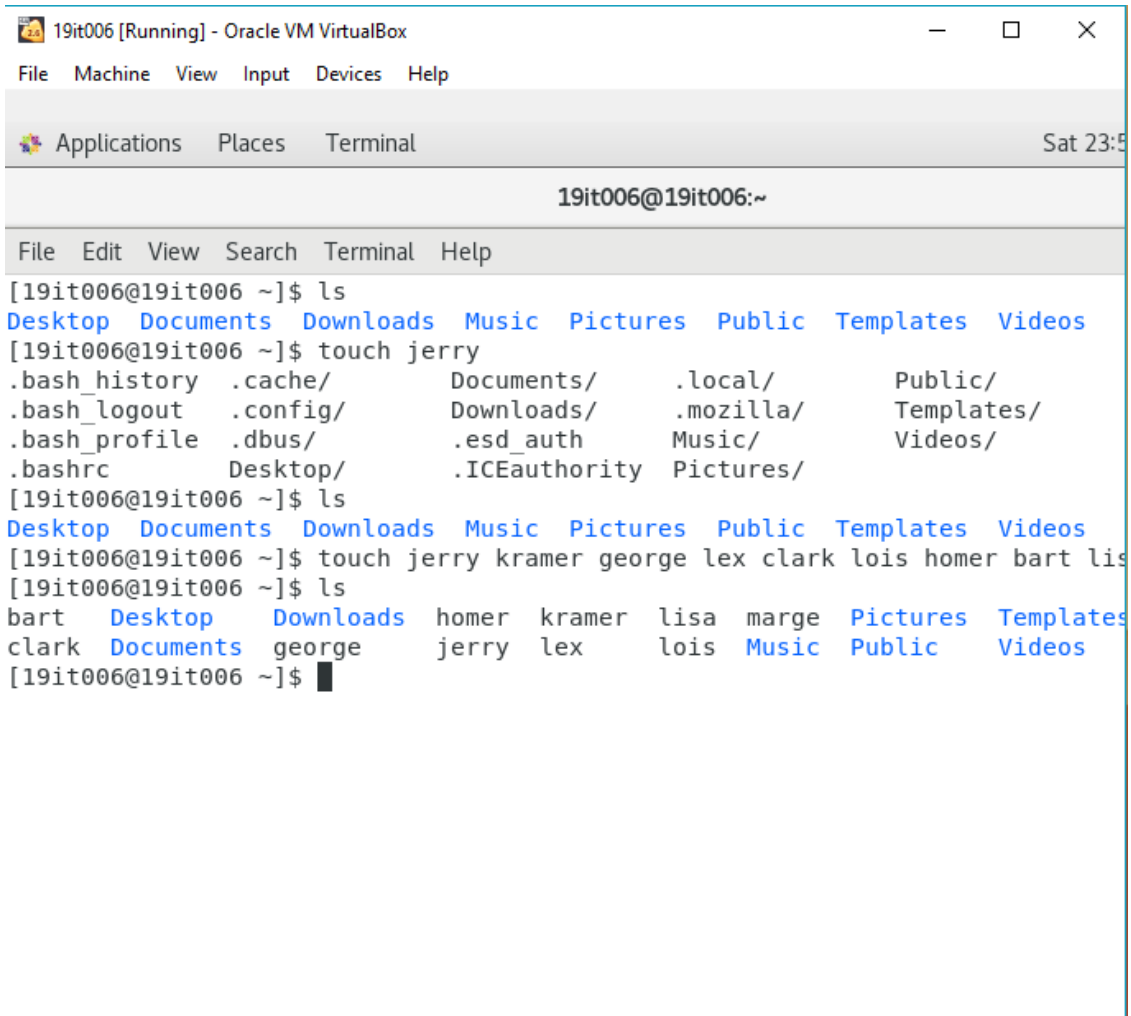
### 1. Change your password.



The screenshot shows a terminal window titled "19it006 [Running] - Oracle VM VirtualBox". The window has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". Below the menu bar is a toolbar with "Applications", "Places", and "Terminal" buttons. The terminal itself has a title bar "19it006@19it006:~" and a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal output shows the following commands and responses:

```
[19it006@19it006 ~]$ passwd
Changing password for user 19it006.
Changing password for 19it006.
(current) UNIX password:
[19it006@19it006 ~]$
```

**2. Create 10 files under your home directory (File names = jerry, kramer, george, lex, clark, lois, homer, bart, lisa, and marge)**



```
19it006 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

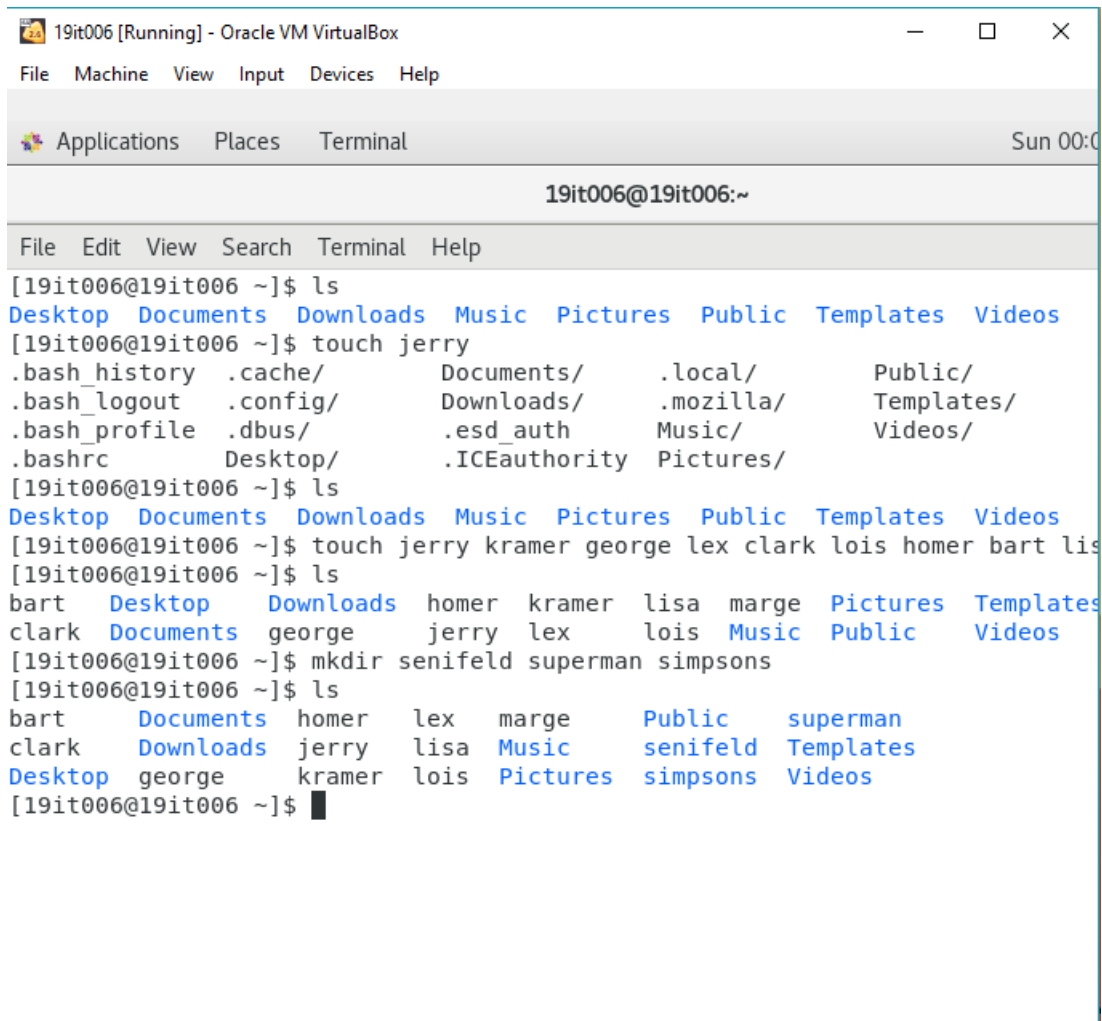
Applications Places Terminal Sat 23:5

19it006@19it006:~

File Edit View Search Terminal Help

[19it006@19it006 ~]$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
[19it006@19it006 ~]$ touch jerry
.bash_history .cache/ Documents/ .local/ Public/
.bash_logout .config/ Downloads/ .mozilla/ Templates/
.bash_profile .dbus/ .esd_auth Music/ Videos/
.bashrc Desktop/ .ICEauthority Pictures/
[19it006@19it006 ~]$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
[19it006@19it006 ~]$ touch jerry kramer george lex clark lois homer bart lis
[19it006@19it006 ~]$ ls
bart Desktop Downloads homer kramer lisa marge Pictures Templates
clark Documents george jerry lex lois Music Public Videos
[19it006@19it006 ~]$
```

### 3. Create 3 directories under your home directory (Dir name = seinfeld, superman and simpsons)



```

19it006 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Applications Places Terminal Sun 00:00

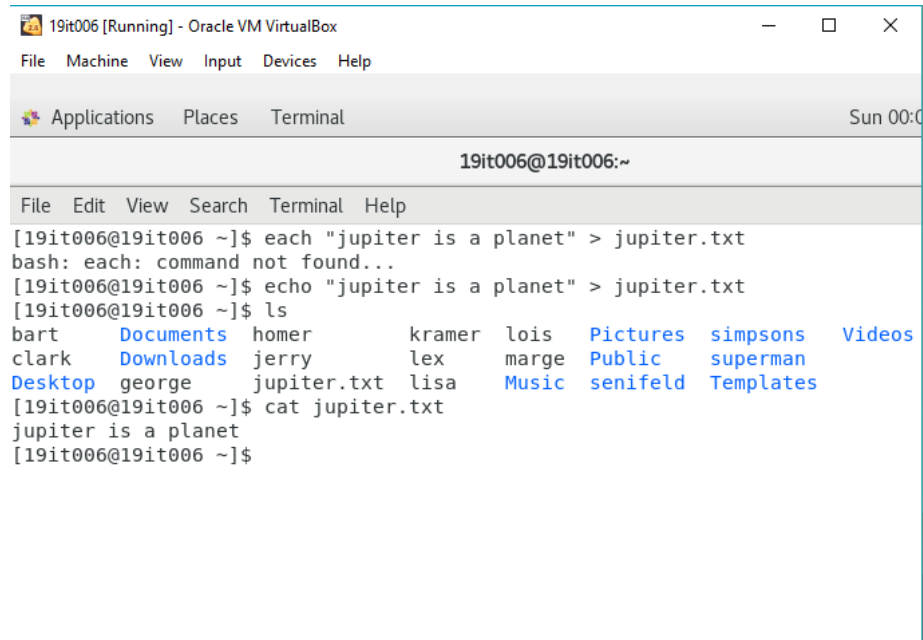
19it006@19it006:~
File Edit View Search Terminal Help

[19it006@19it006 ~]$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
[19it006@19it006 ~]$ touch jerry
.bash_history .cache/ Documents/ .local/ Public/
.bash_logout .config/ Downloads/ .mozilla/ Templates/
.bash_profile .dbus/ .esd_auth Music/ Videos/
.bashrc Desktop/ .ICEauthority Pictures/
[19it006@19it006 ~]$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
[19it006@19it006 ~]$ touch jerry kramer george lex clark lois homer bart lis
[19it006@19it006 ~]$ ls
bart Desktop Downloads homer kramer lisa marge Pictures Templates
clark Documents george jerry lex lois Music Public Videos
[19it006@19it006 ~]$ mkdir seinfeld superman simpsons
[19it006@19it006 ~]$ ls
bart Documents homer lex marge Public superman
clark Downloads jerry lisa Music seinfeld Templates
Desktop george kramer lois Pictures simpsons Videos
[19it006@19it006 ~]$

```

4. Create a new file jupiter and write to it as "Jupiter is a planet".Then create a soft link in /tmp directory.

- Create a new file Jupiter and write to it as “Jupiter is a planet”
- Create soft link in /tmp directory



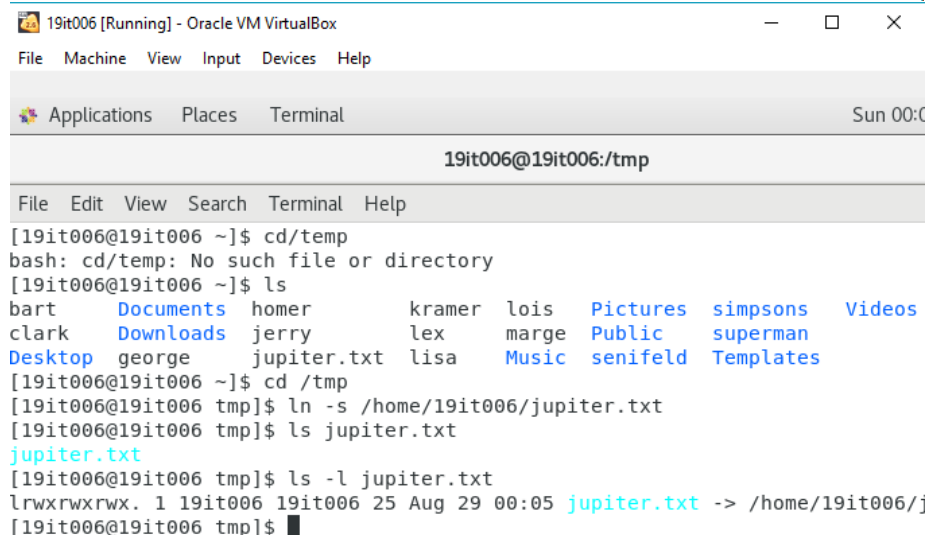
```

19it006 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Applications Places Terminal Sun 00:00

19it006@19it006:~
File Edit View Search Terminal Help
[19it006@19it006 ~]$ echo "jupiter is a planet" > jupiter.txt
bash: echo: command not found...
[19it006@19it006 ~]$ echo "jupiter is a planet" > jupiter.txt
[19it006@19it006 ~]$ ls
bart Documents homer kramer lois Pictures simpsons Videos
clark Downloads jerry lex marge Public superman
Desktop george jupiter.txt lisa Music senifeld Templates
[19it006@19it006 ~]$ cat jupiter.txt
jupiter is a planet
[19it006@19it006 ~]$

```



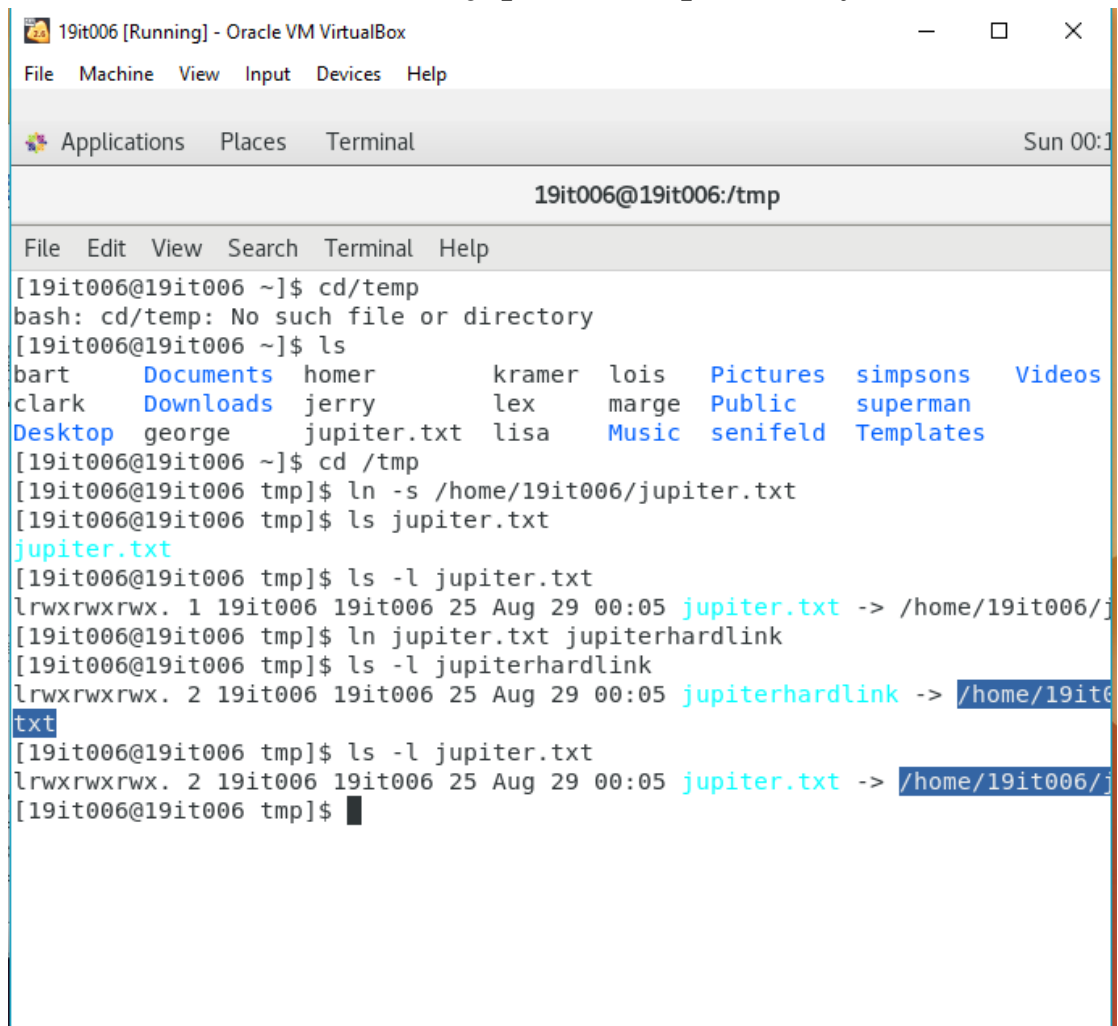
```

19it006 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Applications Places Terminal Sun 00:00

19it006@19it006:/tmp
File Edit View Search Terminal Help
[19it006@19it006 ~]$ cd /tmp
bash: cd /tmp: No such file or directory
[19it006@19it006 ~]$ ls
bart Documents homer kramer lois Pictures simpsons Videos
clark Downloads jerry lex marge Public superman
Desktop george jupiter.txt lisa Music senifeld Templates
[19it006@19it006 ~]$ cd /tmp
[19it006@19it006 tmp]$ ln -s /home/19it006/jupiter.txt
[19it006@19it006 tmp]$ ls jupiter.txt
jupiter.txt
[19it006@19it006 tmp]$ ls -l jupiter.txt
lrwxrwxrwx. 1 19it006 19it006 25 Aug 29 00:05 jupiter.txt -> /home/19it006/j
[19it006@19it006 tmp]$

```

**5. Also create a hard link of jupiter in /tmp directory**

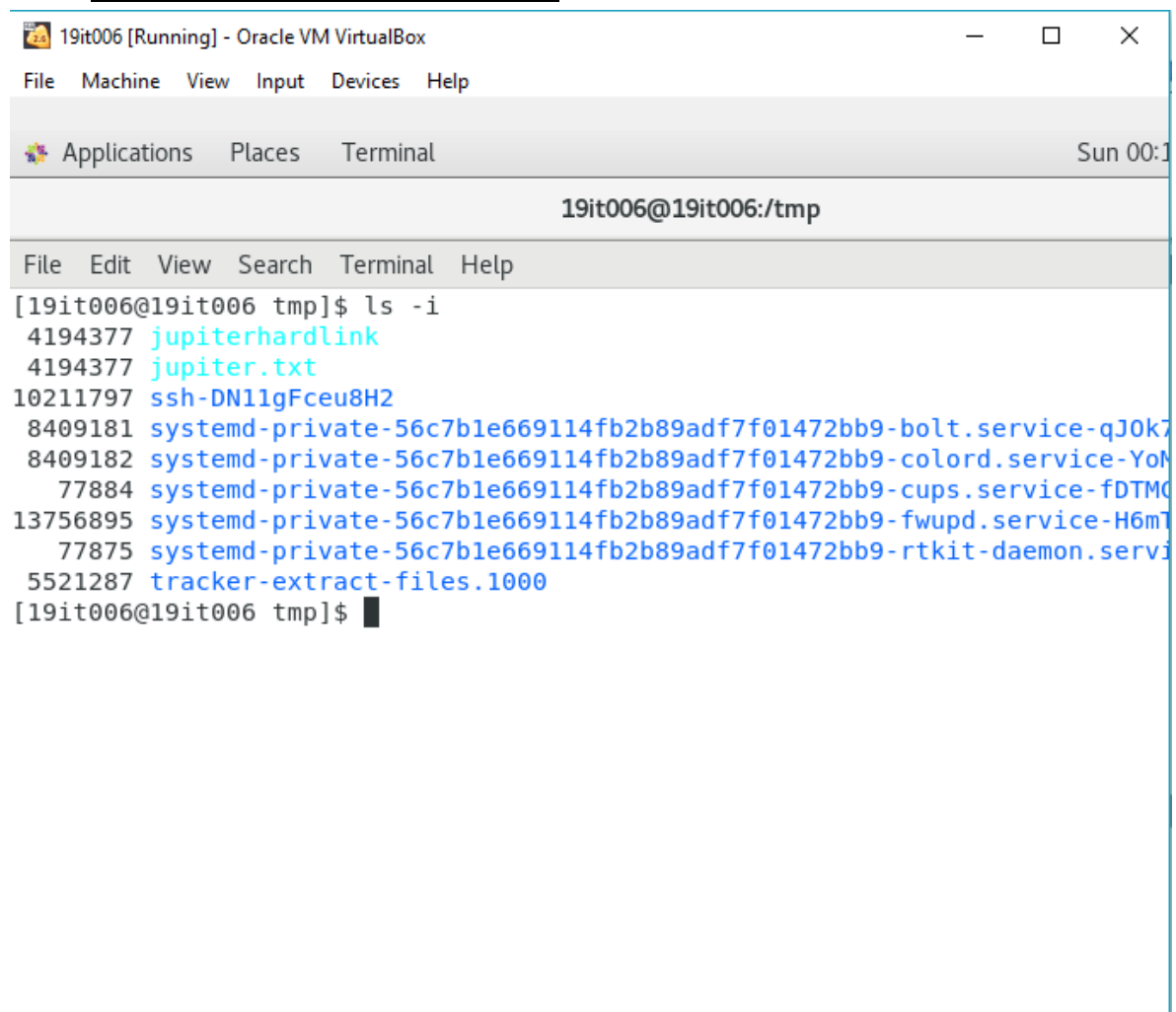
```
19it006 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Applications Places Terminal Sun 00:1

19it006@19it006:/tmp
File Edit View Search Terminal Help

[19it006@19it006 ~]$ cd/temp
bash: cd/temp: No such file or directory
[19it006@19it006 ~]$ ls
bart      Documents  homer      kramer    lois      Pictures  simpsons  Videos
clark     Downloads  jerry      lex       marge     Public    superman
Desktop   george     jupiter.txt lisa      Music     senifeld  Templates
[19it006@19it006 ~]$ cd /tmp
[19it006@19it006 tmp]$ ln -s /home/19it006/jupiter.txt
[19it006@19it006 tmp]$ ls jupiter.txt
jupiter.txt
[19it006@19it006 tmp]$ ls -l jupiter.txt
lrwxrwxrwx. 1 19it006 19it006 25 Aug 29 00:05 jupiter.txt -> /home/19it006/j
[19it006@19it006 tmp]$ ln jupiter.txt jupiterhardlink
[19it006@19it006 tmp]$ ls -l jupiterhardlink
lrwxrwxrwx. 2 19it006 19it006 25 Aug 29 00:05 jupiterhardlink -> /home/19it006/j
txt
[19it006@19it006 tmp]$ ls -l jupiter.txt
lrwxrwxrwx. 2 19it006 19it006 25 Aug 29 00:05 jupiter.txt -> /home/19it006/j
[19it006@19it006 tmp]$
```

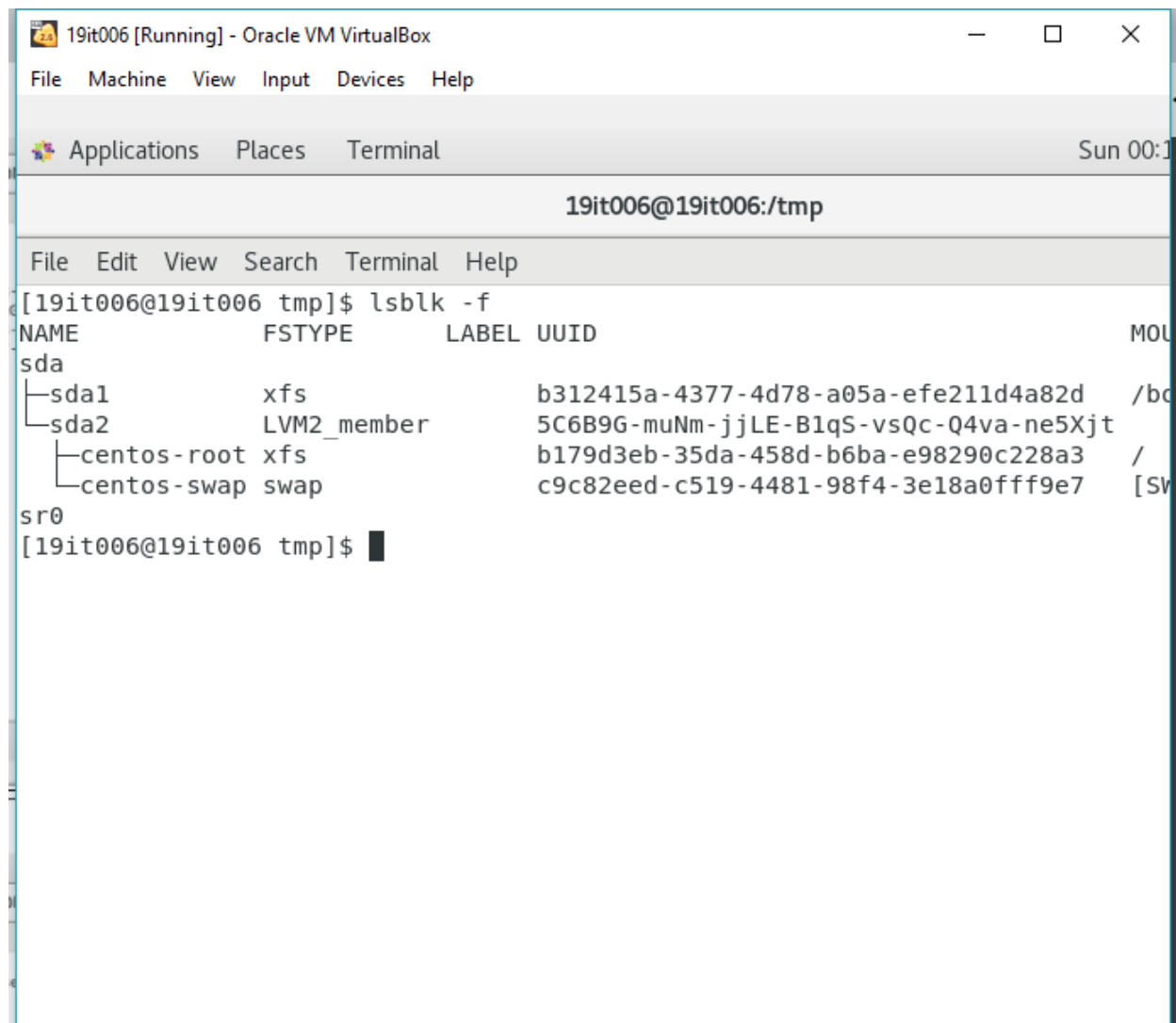
## 6. Check the inodes of both link.



The screenshot shows a terminal window titled "19it006 [Running] - Oracle VM VirtualBox". The window has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". Below the menu bar is a toolbar with "Applications", "Places", and "Terminal" buttons. The terminal title bar shows "19it006@19it006:/tmp". The terminal content shows the command `[19it006@19it006 tmp]$ ls -li` and its output:

```
[19it006@19it006 tmp]$ ls -li
4194377  jupiterhardlink
4194377  jupiter.txt
10211797 ssh-DN11gFceu8H2
8409181 systemd-private-56c7b1e669114fb2b89adf7f01472bb9-bolt.service-qJ0k7
8409182 systemd-private-56c7b1e669114fb2b89adf7f01472bb9-colord.service-YoM
77884  systemd-private-56c7b1e669114fb2b89adf7f01472bb9-cups.service-fDTM0
13756895 systemd-private-56c7b1e669114fb2b89adf7f01472bb9-fwupd.service-H6mT
77875  systemd-private-56c7b1e669114fb2b89adf7f01472bb9-rtkit-daemon.servi
5521287 tracker-extract-files.1000
[19it006@19it006 tmp]$
```

## 7. Commands to determine the file system type in LinuxOS



The screenshot shows a terminal window titled "19it006 [Running] - Oracle VM VirtualBox". The terminal displays the output of the command `lsblk -f`. The output is a table with columns: NAME, FSTYPE, LABEL, UUID, and MOUNTPOINT. The data shows the disk layout for the virtual machine, including partitions `sda1`, `sda2`, `centos-root`, and `centos-swap`, along with their file system types and UUIDs.

```
[19it006@19it006 tmp]$ lsblk -f
```

NAME	FSTYPE	LABEL	UUID	MOUNTPOINT
sda				
└sda1	xfs		b312415a-4377-4d78-a05a-efe211d4a82d	/boot
└sda2	LVM2_member		5C6B9G-muNm-jjLE-B1qS-vsQc-Q4va-ne5Xjt	
└└centos-root	xfs		b179d3eb-35da-458d-b6ba-e98290c228a3	/
└└centos-swap	swap		c9c82eed-c519-4481-98f4-3e18a0fff9e7	[SWAP]
sr0				

```
[19it006@19it006 tmp]$
```