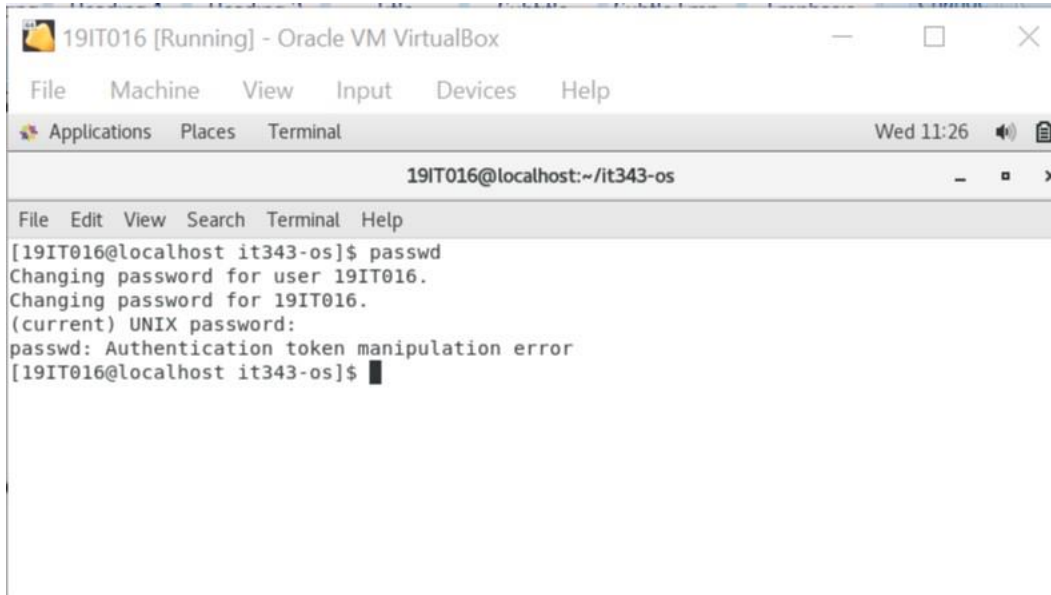


PRACTICAL-2

1)• Change your password



The screenshot shows a terminal window titled "19IT016 [Running] - Oracle VM VirtualBox". The terminal prompt is "19IT016@localhost: ~/it343-os". The user enters the command "passwd". The output shows the process of changing the password for user 19IT016, but it fails with the error "passwd: Authentication token manipulation error".

```
19IT016@localhost:~/it343-os
File Edit View Search Terminal Help
[19IT016@localhost it343-os]$ passwd
Changing password for user 19IT016.
Changing password for 19IT016.
(current) UNIX password:
passwd: Authentication token manipulation error
[19IT016@localhost it343-os]$
```

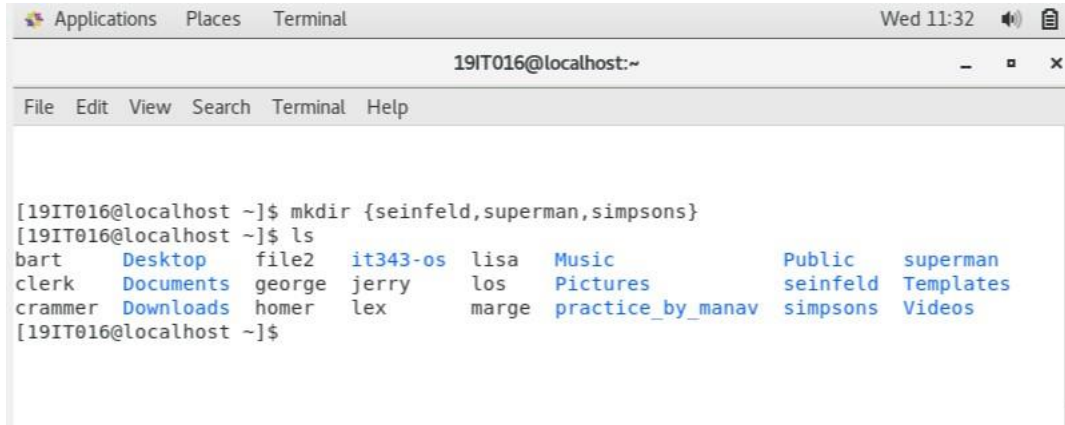
2)• Create 10 files under your home directory (File names = jerry, kramer, george, lex, clark, lois, homer, bart, lisa, and marge)



The screenshot shows a terminal window titled "19IT016@localhost: ~". The user enters the command "ls" and "cd .." to navigate to the home directory. Then, the user enters the command "touch {jerry, kramer, george, lex, clark, lois, homer, bart, lisa, marge}" to create 10 files. Finally, the user enters "ls" to list the files, which are displayed in a color-coded format.

```
19IT016@localhost:~
File Edit View Search Terminal Help
[19IT016@localhost it343-os]$ ls
[19IT016@localhost it343-os]$ cd ..
[19IT016@localhost ~]$ ls
Desktop  Downloads  it343-os  Pictures      Public      Videos
Documents file2      Music    practice_by_manav  Templates
[19IT016@localhost ~]$ touch {jerry,kramer,george,lex,clerk,los,homer,bart,lisa,marge}
[19IT016@localhost ~]$ ls
bart      Desktop  file2    it343-os  lisa    Music      Public
clerk     Documents george   jerry     los     Pictures   Templates
cramer    Downloads homer    lex       marge   practice_by_manav  Videos
[19IT016@localhost ~]$
```

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

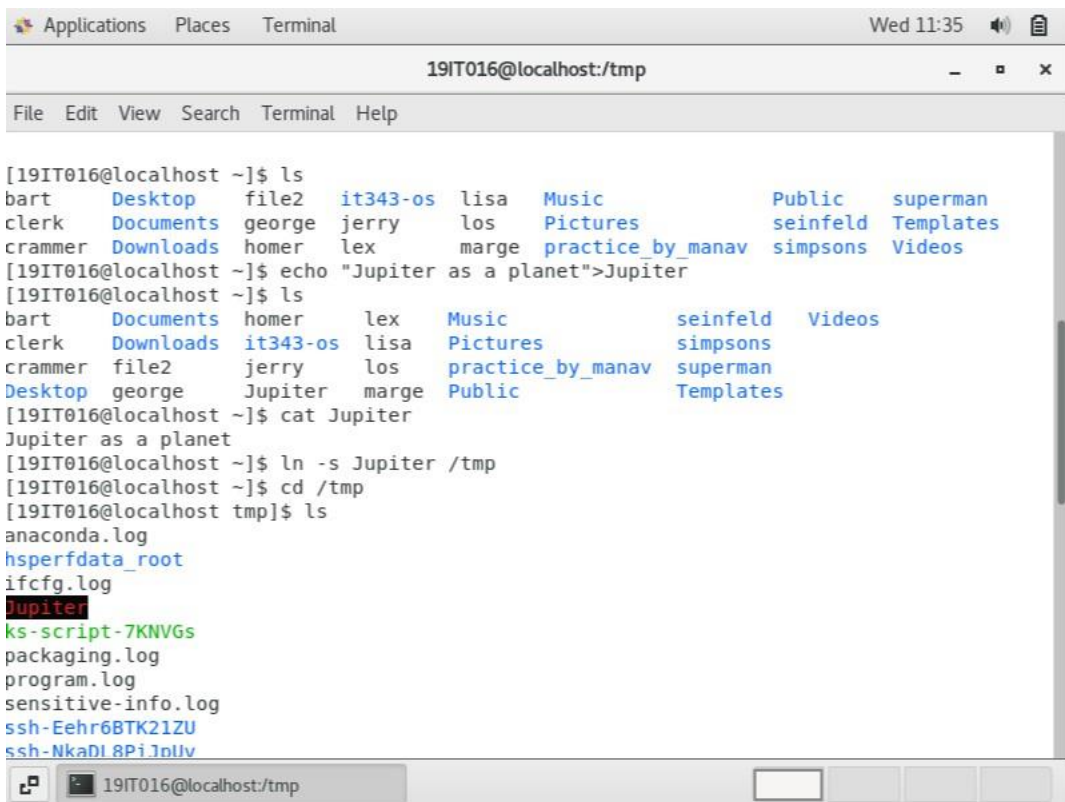


```

[19IT016@localhost ~]$ mkdir {seinfeld,superman,simpsons}
[19IT016@localhost ~]$ ls
bart    Desktop  file2    it343-os  lisa    Music      Public  superman
clerk   Documents george   jerry     los     Pictures   seinfeld Templates
crammer Downloads homer    lex       marge   practice_by_manav simpsons Videos
[19IT016@localhost ~]$

```

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

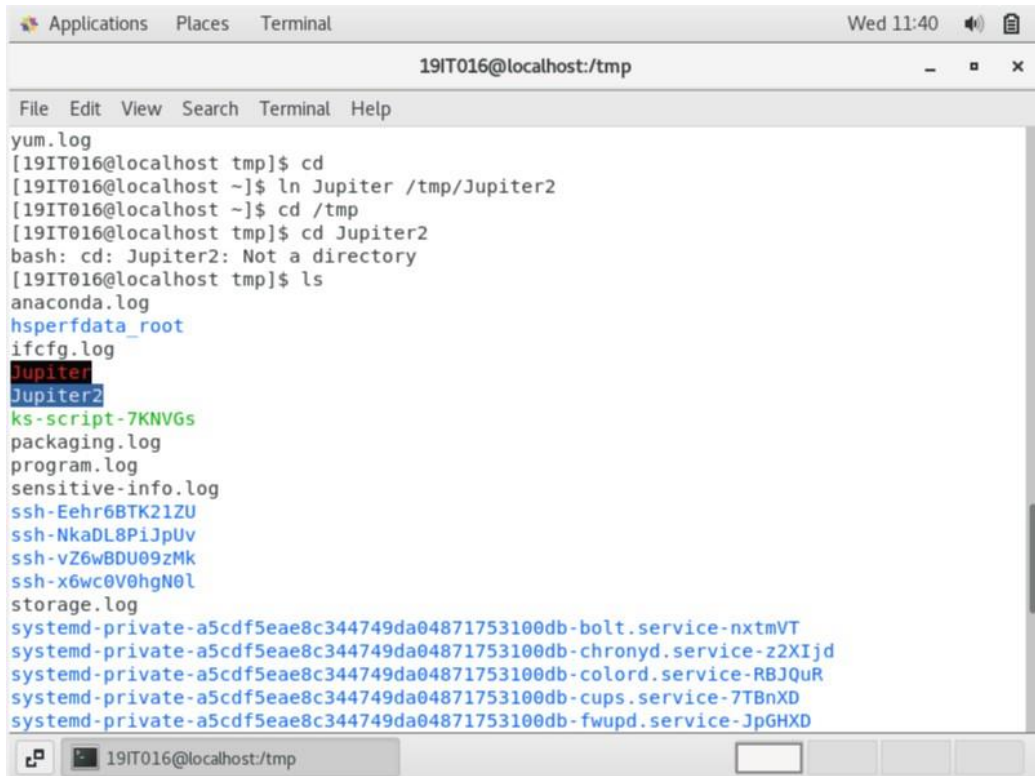


```

[19IT016@localhost ~]$ ls
bart    Desktop  file2    it343-os  lisa    Music      Public  superman
clerk   Documents george   jerry     los     Pictures   seinfeld Templates
crammer Downloads homer    lex       marge   practice_by_manav simpsons Videos
[19IT016@localhost ~]$ echo "Jupiter as a planet">Jupiter
[19IT016@localhost ~]$ ls
bart    Documents homer    lex    Music      seinfeld  Videos
clerk   Downloads it343-os lisa    Pictures   simpsons
crammer file2     jerry     los    practice_by_manav superman
Desktop george   Jupiter   marge  Public      Templates
[19IT016@localhost ~]$ cat Jupiter
Jupiter as a planet
[19IT016@localhost ~]$ ln -s Jupiter /tmp
[19IT016@localhost ~]$ cd /tmp
[19IT016@localhost tmp]$ ls
anaconda.log
hsperfdata_root
ifcfg.log
jupiter
ks-script-7KNVGs
packaging.log
program.log
sensitive-info.log
ssh-Eehr6BTK21ZU
ssh-NkaDI 8PiJnIv

```

5)• Also create a hard link of jupiter in /tmp directory

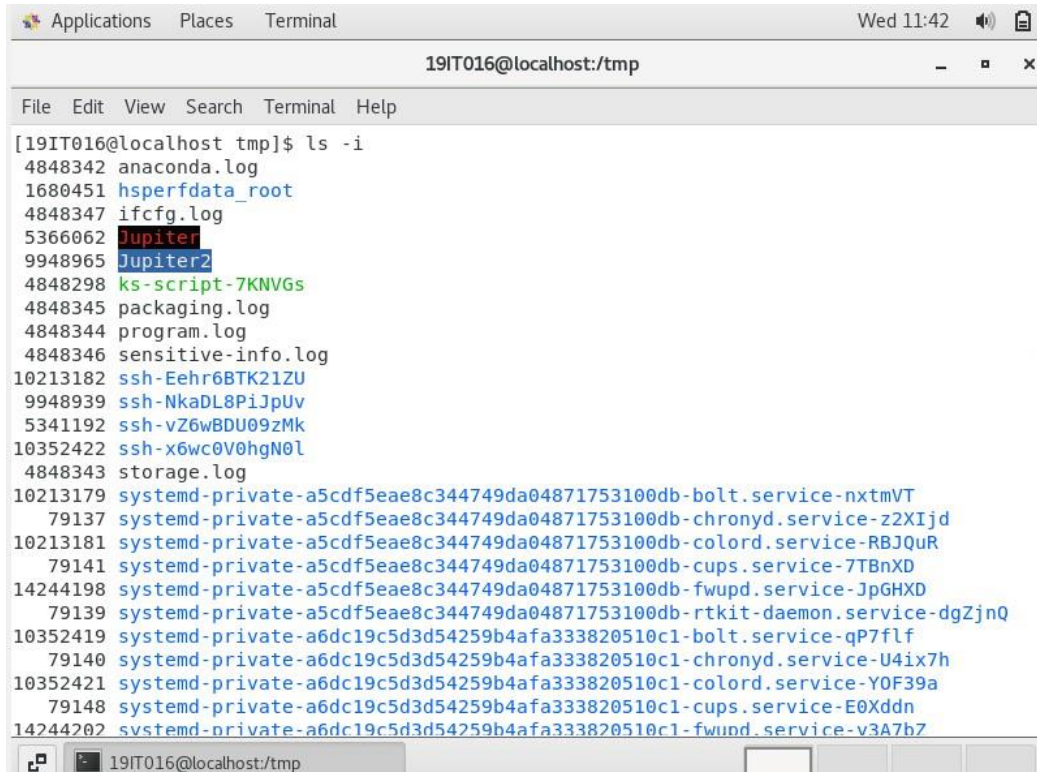


```
Applications  Places  Terminal  Wed 11:40
19IT016@localhost:/tmp

File Edit View Search Terminal Help

yum.log
[19IT016@localhost tmp]$ cd
[19IT016@localhost ~]$ ln Jupiter /tmp/Jupiter2
[19IT016@localhost ~]$ cd /tmp
[19IT016@localhost tmp]$ cd Jupiter2
bash: cd: Jupiter2: Not a directory
[19IT016@localhost tmp]$ ls
anaconda.log
hsperfdata_root
ifcfg.log
Jupiter
Jupiter2
ks-script-7KNVGs
packaging.log
program.log
sensitive-info.log
ssh-Eehr6BTK21ZU
ssh-NkaDL8PiJpUv
ssh-vZ6wBDU09zMk
ssh-x6wc0V0hgN0l
storage.log
systemd-private-a5cdf5eae8c344749da04871753100db-bolt.service-nxtmVT
systemd-private-a5cdf5eae8c344749da04871753100db-chronyd.service-z2XIjd
systemd-private-a5cdf5eae8c344749da04871753100db-colord.service-RBJQuR
systemd-private-a5cdf5eae8c344749da04871753100db-cups.service-7TBnXD
systemd-private-a5cdf5eae8c344749da04871753100db-fwupd.service-JpGHXD
```

6)• Check the inodes of both links

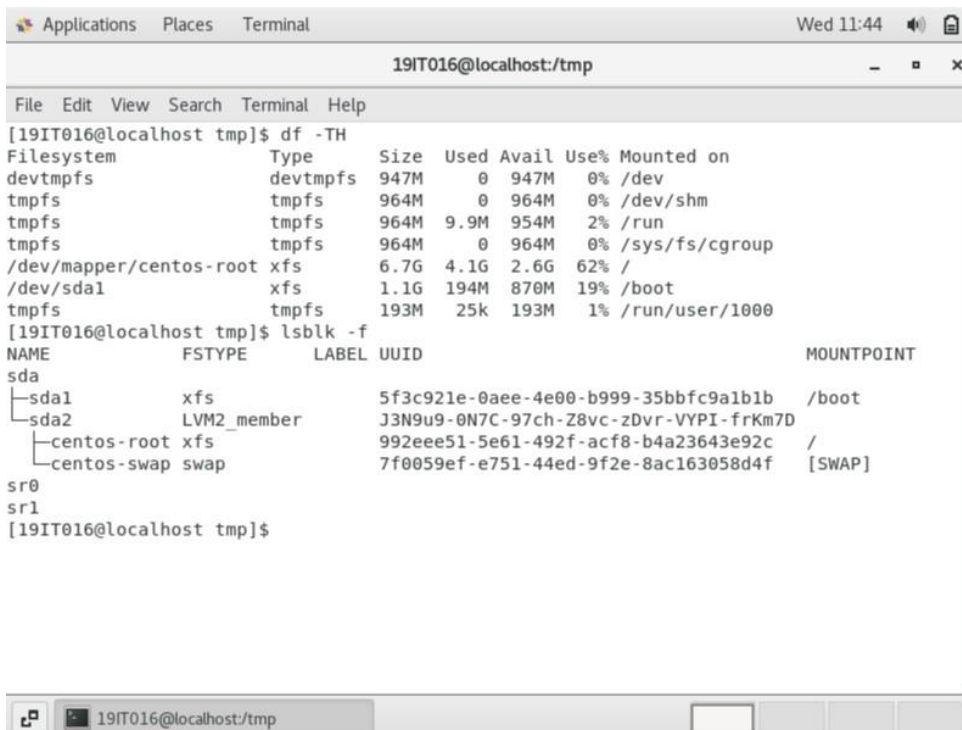


```

[19IT016@localhost tmp]$ ls -li
4848342 anaconda.log
1680451 hspcrfdata_root
4848347 ifcfg.log
5366062 Jupiter
9948965 Jupiter2
4848298 ks-script-7KNVGs
4848345 packaging.log
4848344 program.log
4848346 sensitive-info.log
10213182 ssh-Eehr6BTK21ZU
9948939 ssh-NkaDL8PiJpUv
5341192 ssh-vZ6wBDU09zMk
10352422 ssh-x6wc0V0hgN0l
4848343 storage.log
10213179 systemd-private-a5cdf5eae8c344749da04871753100db-bolt.service-nxtmVT
79137 systemd-private-a5cdf5eae8c344749da04871753100db-chrond.service-z2XIjd
10213181 systemd-private-a5cdf5eae8c344749da04871753100db-colord.service-RBJQuR
79141 systemd-private-a5cdf5eae8c344749da04871753100db-cups.service-7TBnXD
14244198 systemd-private-a5cdf5eae8c344749da04871753100db-fwupd.service-JpGHXD
79139 systemd-private-a5cdf5eae8c344749da04871753100db-rtkit-daemon.service-dgZjnQ
10352419 systemd-private-a6dc19c5d3d54259b4afa333820510c1-bolt.service-qP7flf
79140 systemd-private-a6dc19c5d3d54259b4afa333820510c1-chrond.service-U4ix7h
10352421 systemd-private-a6dc19c5d3d54259b4afa333820510c1-colord.service-Y0F39a
79148 systemd-private-a6dc19c5d3d54259b4afa333820510c1-cups.service-E0Xddn
14244202 systemd-private-a6dc19c5d3d54259b4afa333820510c1-fwupd.service-v3A7b7

```

7)• Commands to determine the file system type in Linux OS



```

[19IT016@localhost tmp]$ df -TH
Filesystem      Type      Size  Used Avail Use% Mounted on
devtmpfs        devtmpfs  947M   0    947M   0% /dev
tmpfs           tmpfs     964M   0    964M   0% /dev/shm
tmpfs           tmpfs     964M   9.9M 954M   2% /run
tmpfs           tmpfs     964M   0    964M   0% /sys/fs/cgroup
/dev/mapper/centos-root xfs       6.7G  4.1G  2.6G  62% /
/dev/sda1       xfs       1.1G  194M  870M  19% /boot
tmpfs           tmpfs     193M   25k  193M   1% /run/user/1000

[19IT016@localhost tmp]$ lsblk -f
NAME        FSTYPE LABEL  UUID                                  MOUNTPOINT
sda
├─sda1      xfs     5f3c921e-0aee-4e00-b999-35bbfc9a1b1b /boot
├─sda2      LVM2_member
│   └─centos-root xfs     992eee51-5e61-492f-acf8-b4a23643e92c /
│   └─centos-swap swap    7f0059ef-e751-44ed-9f2e-8ac163058d4f [SWAP]
sr0
sr1

```