Name: Niharika B S USN: 1BM19CS100

USP LAB- 1 ASSIGNMENT

1. Find the present Directory

```
bmsce@bmsce-Precision-T1700:~$ pwd
/home/bmsce
```

2. Write the / directory structure

```
bmsce@bmsce-Precision-T1700:~$ cd /
bmsce@bmsce-Precision-T1700:/$ ls
a core initrd.img libx32 proc srv var
app data initrd.img.old lost+found root swapfile vmlinuz
bin dev lib media run sys vmlinuz.old
boot etc lib32 mnt sbin tmp
cdrom home lib64 opt snap usr
```

3. Write a few commands available in /bin and /sbin directory

```
bmsce@bmsce-Precision-T1700:/$ cd bin
bmsce@bmsce-Precision-T1700:/bin$ ls
'[' mkzftree
2to3-2.7 mlabel
7z mlocate
7za mm2gv
7zr mmcli
aa-enabled mmd
aa-exec mmdbresolve
```

```
bmsce@bmsce-Precision-T1700:/sbin$ ls
a2disconf
                                                   pam_tally2
                            getcap
a2dismod
                            getpcaps
                                                   pam_timestamp_d
a2dissite
                                                   paperconfig
                            getty
a2enconf
                            aetweb
                                                   parted
a2enmod
                            gnome-menus-blacklist
                                                   partprobe
```

4. Create a new Directory test

```
bmsce@bmsce-Precision-T1700:~/cs106$ mkdir test
bmsce@bmsce-Precision-T1700:~/cs106$ cd test
```

```
5. Write the permissions of test directory
bmsce@bmsce-Precision-T1700:~/cs106/test$ touch sample.txt
bmsce@bmsce-Precision-T1700:~/cs106/test$ ls -l
total 0
-rw-r--r-- 1 bmsce bmsce 0 Oct 21 11:48 sample.txt
```

6. Copy the file /etc/resolv.conf in test directory

```
bmsce@bmsce-Precision-T1700:~/cs106/test$ cp /etc/resolv.conf .
bmsce@bmsce-Precision-T1700:~/cs106/test$ ls
resolv.conf sample.txt
```

7. Rename the test directory to testing

```
bmsce@bmsce-Precision-T1700:~/cs106$ mv test testing
bmsce@bmsce-Precision-T1700:~/cs106$ cd testing/
bmsce@bmsce-Precision-T1700:~/cs106/testing$
```

- 8. Change the permissions of testing directory to 775

 bmsce@bmsce-Precision-T1700:~/cs106/testing\$ chmod 775.

 bmsce@bmsce-Precision-T1700:~/cs106/testing\$ ls -l
- 9. Change the permissions of /tmp directory to 700
 bmsce@bmsce-Precision-T1700:/tmp\$ sudo chmod 700 .
 [sudo] password for bmsce:
 bmsce@bmsce-Precision-T1700:/tmp\$
- 10. Change the permissions of guest directory to 700

```
bmsce@bmsce-Precision-T1700:~/cs106$ chmod 700 guest
bmsce@bmsce-Precision-T1700:~/cs106$ ls -l
total 4
drwx----- 2 bmsce bmsce 4096 Oct 21 12:26 guest
-rw-r--r-- 1 bmsce bmsce 0 Oct 21 12:26 sample
-rw-r--r-- 1 bmsce bmsce 0 Oct 21 12:26 sample2
```

11. Delete the testing directory

```
bmsce@bmsce-Precision-T1700:~/cs106$ rm -r testing
```

12. The location of kernel files in Unix File System is /boot and by looking at the kernel file, write the kernel version you are using in your system.

```
bmsce@bmsce-Precision-T1700:~/cs106$ cd /
bmsce@bmsce-Precision-T1700:/$ cd boot
bmsce@bmsce-Precision-T1700:/boot$ ls
config-5.0.0-37-generic
                             memtest86+.bin
config-5.0.0-38-generic
                             memtest86+.elf
efi
                             memtest86+ multiboot.bin
arub
                             System.map-5.0.0-37-generic
grub.bak
                             System.map-5.0.0-38-generic
initrd.img-5.0.0-37-generic
                             vmlinuz-5.0.0-37-generic
initrd.img-5.0.0-38-generic vmlinuz-5.0.0-38-generic
```

13. Change directory to /

```
bmsce@bmsce-Precision-T1700:/home$ cd /
```

14. List the contents of /home directory

```
bmsce@bmsce-Precision-T1700:/home$ ls
bmsce exam hdusen
```

Create a file sidbi in the home directory omsce@bmsce-Precision-T1700:/\$ cd home omsce@bmsce-Precision-T1700:/home\$ sudo touch sidbi Find the permissions of the file sidbi bmsce@bmsce-Precision-T1700:/home\$ ls -l total 12 drwxr-xr-x 39 bmsce bmsce 4096 Oct 21 12:10 bmsce drwxr-xr-x 19 exam exam 4096 Nov 29 2019 exam drwxrwxrwx 34 hduser hadoop 4096 Mar 1 2021 Millisen -rw-r--r-- 1 root root 0 Oct 21 12:10 sidbi Find the inode number of file sidbi (hint: ls –li) bmsce@bmsce-Precision-T1700:/home\$ ls -li total 12 7346783 drwxr-xr-x 39 bmsce bmsce 4096 Oct 21 12:12 bmsce 8128533 drwxr-xr-x 19 exam exam 4096 Nov 29 2019 exam 7346914 drwxrwxrwx 34 hduser hadoop 4096 Mar 1 2021 7355393 -rw-r--r-- 1 root root 0 Oct 21 12:10 sidbi Copy the file sidbi to sidbi1 bmsce@bmsce-Precision-T1700:/home\$ sudo cp sidbi sidbi1 Find the inode number of file sidbil (hint: ls –li) bmsce@bmsce-Precision-T1700:/home\$ ls -li total 12 7346783 drwxr-xr-x 39 bmsce bmsce 4096 Oct 21 12:16 bmsce 8128533 drwxr-xr-x 19 exam 4096 Nov 29 2019 exam exam 7346914 drwxrwxrwx 34 hduser hadoop 4096 Mar 1 2021 hduser 7355393 -rw-r--r-- 1 root root 0 Oct 21 12:10 sidbi 7355388 -rw-r--r-- 1 root root 0 Oct 21 12:16 sidbi1 Move the file sidbi to sidbi2 bmsce@bmsce-Precision-T1700:/home\$ sudo mv sidbi sidbi2 Find the inode number of file sidbi2 (hint: ls –li) bmsce@bmsce-Precision-T1700:/home\$ ls -li 7346783 drwxr-xr-x 39 bmsce bmsce 4096 Oct 21 12:17 bmsce 8128533 drwxr-xr-x 19 exam exam 4096 Nov 29 2019 exam 7346914 drwxrwxrwx 34 hduser hadoop 4096 Mar 1 2021 hduse 7355388 -rw-r--r-- 1 root 0 Oct 21 12:16 sidbi1 root 7355393 -rw-r--r-- 1 root 0 Oct 21 12:10 sidbi2 root 22. Move sidbi2 to sidbi [bmsce@bmsce-Precision-T1700:/home\$ sudo mv sidbi2 sidbi bmsce@bmsce-Precision-T1700:/home\$ ls bmsce exam hdusen sidbi sidbil