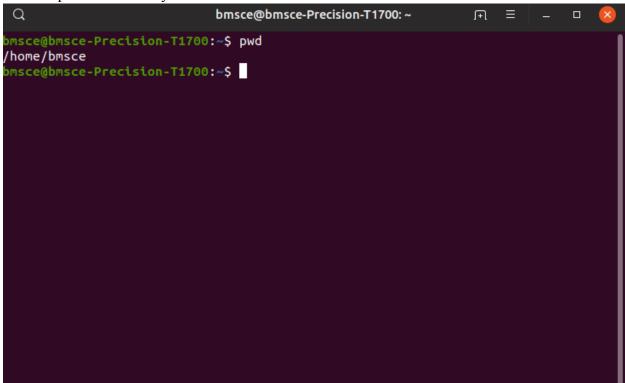
LINUX LAB- 1 ASSIGNMENT

1. Find the present Directory



- 2. Write the / directory structure
- 3. Write a few commands available in /bin and /sbin directory

```
bmsce@bmsce-Precision-T1700: ~
bmsce@bmsce-Precision-T1700:~$ ls
                       file3
                                                              q2.cc
                       file3.txt
                                   new4.sh
cassandra
                       file4
                                   new5.sh
                                                              second.sh
client.py
                       file4.txt
                                                              server
                       file5
                                                              server.py
                       file5.txt
                                   ns-allinone-3.29
Downloads
                       first.sh
                                                              softwares
                                                              Templates
file1
                                   Pictures
file1.txt
                       netanim.cc prog1.c
                                                              Videos
file2
                       new1.sh
file2.txt
                                   Public
bmsce@bmsce-Precision-T1700:~$ ps
 PID TTY
                   TIME CMD
4938 pts/0
               00:00:00 bash
7471 pts/0
               00:00:00 ps
bmsce@bmsce-Precision-T1700:~$ cat> nikhil.txt
bmsce
^C
bmsce@bmsce-Precision-T1700:~$ cp
cp: missing file operand
Try 'cp --help' for more information.
bmsce@bmsce-Precision-T1700:~$ cp nikhil.txt
cp: missing destination file operand after 'nikhil.txt'
Try 'cp --help' for more information.
bmsce@bmsce-Precision-T1700:~$ cp nikhil.txt abc.txt
bmsce@bmsce-Precision-T1700:~$ ls
                       client.py eclipse-workspace file2.txt
abc.txt
                                                                file4.txt
        new2.sh nikhil.txt
                                                                     pt
ond.sh softwares
Android
                                  file1
                                                      file3
                                                                 file5
                                                                            Musi
                                                                     Public ser
        Templates
                                                      file3.txt file5.txt
                                  file1.txt
                                                                            neta
nim.cc new4.sh
                                           Pictures
                                                                     q2.cc
                                                                             ser
ver.py test
                                  file2
                                                      file4
cassandra
                                                                 first.sh
        new5.sh ns-allinone-3.29
                                          prog1.c
        Videos
bmsce@bmsce-Precision-T1700:~$ cat abc.txt
bmsce
bmsce@bmsce-Precision-T1700:~$
```

- 4. Create a new Directory test
- 5. Write the permissions of test directory

```
Q
                            bmsce@bmsce-Precision-T1700: ~
                                                                    \equiv
omsce@bmsce-Precision-T1700:~$ mkdir test
omsce@bmsce-Precision-T1700:~$ ls
abc.txt
                       file2.txt
                                    new2.sh
Android
                       file3
                                                                Public
AndroidStudioProjects file3.txt
                                    new4.sh
                                                                q2.cc
                       file4
cassandra
                                    new5.sh
client.py
                       file4.txt
                                    nikhil.txt
                                                                second.sh
Desktop
                       file5
                                                                server
                       file5.txt
Documents
                                                                server.py
Downloads
                       first.sh
clipse-workspace
                                                                softwares
ile1
                                                                Templates
file1.txt
                       netanim.cc Pictures
file2
                       new1.sh
                                    prog1.c
```

- 6. Copy the file /etc/resolv.conf in test directory
- 7. Rename the test directory to testing
- 8. Change the permissions of testing directory to 775

```
bmsce@bmsce-Precision-T1700:~$ cp /etc/resolv.conf /home/bmsce/test
bmsce@bmsce-Precision-T1700:~$ mv test testing
bmsce@bmsce-Precision-T1700:~$ pwd
/home/bmsce
bmsce@bmsce-Precision-T1700:~$ cd testing
bmsce@bmsce-Precision-T1700:~/testing$ pwd
/home/bmsce/testing
bmsce@bmsce-Precision-T1700:~/testing$ cd ..
bmsce@bmsce-Precision-T1700:~$ chmod 775 testing
bmsce@bmsce-Precision-T1700:~$ ls -ld testing
drwxrwxr-x 2 bmsce bmsce 4096 Oct 21 11:58 testing
```

- 9. Change the permissions of /tmp directory to 700
- 10. Change the permissions of guest directory to 700
- 11. Delete the testing directory
- 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:~$ mkdir guest
bmsce@bmsce-Precision-T1700:~$ chmod 700 guest
bmsce@bmsce-Precision-T1700:~$ ls -ld guest
drwx----- 2 bmsce bmsce 4096 Oct 21 12:15 guest
bmsce@bmsce-Precision-T1700:~$ rmdir testing
rmdir: failed to remove 'testing': Directory not empty
bmsce@bmsce-Precision-T1700:~$ rm -rf testing
bmsce@bmsce-Precision-T1700:~$ cd testing
bash: cd: testing: No such file or directory
bmsce@bmsce-Precision-T1700:~$ uname -r
5.0.0-38-generic
```

- 13. Change directory to /
- 14. List the contents of /home directory

```
omsce@bmsce-Precision-T1700:/$ pwd
bmsce@bmsce-Precision-T1700:/$ ls
       core home
                             lib32
                                          media
                                                 root
                                                       srv
bin
       data
             initrd.img
                             lib64
                                                        swapfile
                                                 run
             initrd.img.old
boot
                             libx32
                                          opt
                                                 sbin
                                                                  vmlinuz
             lib
                                                                  vmlinuz.old
drom
      etc
                              lost+found
                                          ргос
```

- 15. Create a file sidbi in the home directory
- 16. Find the permissions of the file sidbi
- 17. Find the inode number of file sidbi (hint: ls –li)
- 18. Copy the file sidbi to sidbi1
- 19. Find the inode number of file sidbi1 (hint: ls –li)

```
Q
                          bmsce@bmsce-Precision-T1700: /home
                                                                          П
bmsce@bmsce-Precision-T1700:/home$ cat > sidbi
bash: sidbi: Permission denied
bmsce@bmsce-Precision-T1700:/home$ cat > hduser/sidbi
abcdefghijklmnopqrstuvwxyz
^C
bmsce@bmsce-Precision-T1700:/home$ cat hduser/sidbi
abcdefghijklmnopqrstuvwxyz
bmsce@bmsce-Precision-T1700:/home$ ls -a
      bmsce exam
bmsce@bmsce-Precision-T1700:/home$ ls -l hduser/sidbi
-rw-r--r-- 1 bmsce bmsce 27 Oct 21 12:31 hduser/sidbi
bmsce@bmsce-Precision-T1700:/home$ ls -la hduser/sidbi
-rw-r--r-- 1 bmsce bmsce 27 Oct 21 12:31 hduser/sidbi
bmsce@bmsce-Precision-T1700:/home$ ls -li hduser/sidbi
7354330 -rw-r--r-- 1 bmsce bmsce 27 Oct 21 12:31 hduser/sidbi
bmsce@bmsce-Precision-T1700:/home$ cp hduser/sidbi hduser/sidbi1
 bmsce@bmsce-Precision-T1700:/home$ ls -li hduser/sidbi1
7354946 -rw-r--r-- 1 bmsce bmsce 27 Oct 21 12:33 hduser/sidbi1
 bmsce@bmsce-Precision-T1700:/home$
```

- 20. Move the file sidbi to sidbi2
- 21. Find the inode number of file sidbi2 (hint: ls –li)
- 22. Move sidbi2 to sidbi