

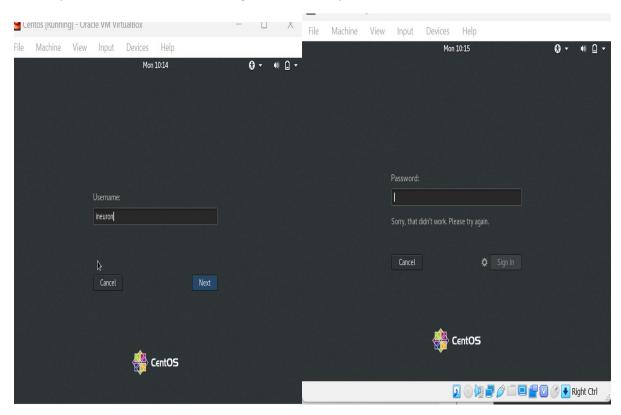
Basic Linux Commands Assignments

Assignment-1

Connect and disconnect with login Access

- What happens when you login a non-existent users or username?
 - o Provide Screenshot and What you understand, explain in short brief?

Solution: As the user (Ineuron) is not created so we are not able to login in to the system. To login in to the system we need to have existing username and password.

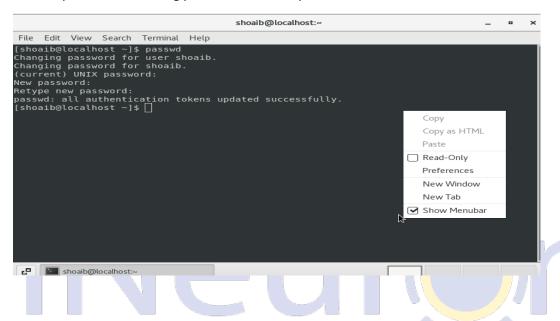


Assignment-2

Password changing

- Login into your account and then change password?
 - Change your password into *IneuR0n#42* and hit the Enter key
 - Explain what happen and give screenshot?

Solution: By using **passwd** command in the terminal we are able to change the password where we need to provide the existing password and new password.



- Try again to change password but use like password 1234 or abcd
 - Explain what happen and give screenshot?

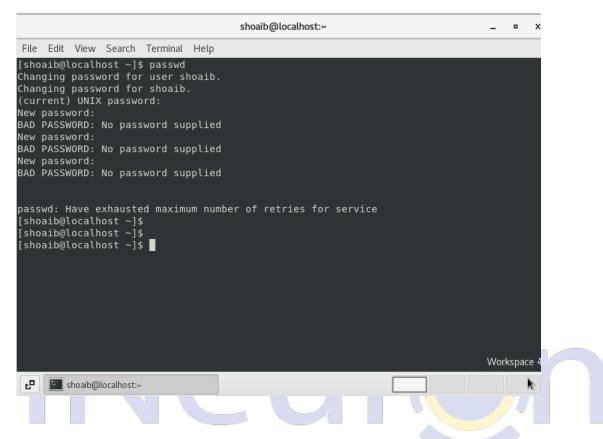
Solution: Password was not able to change to 1234 or abcd as it less than 8 characters.

```
File Edit View Search Terminal Help

[shoaib@localhost ~]$ passwd
Changing password for user shoaib.
Ccurrent) UNIX password:
New password:
New password:
New password:
Nessword:
New password:
New password:
New password:
New password:
New password:
Nessword:
Nessword
```

- o Try again to change password but now don't use any password just hit **Enter** key
 - Explain what happen and give screenshot?

Solution: As we didn't provide the new password it hasn't taken into consideration to change the new password. So after number of attempts it exists.

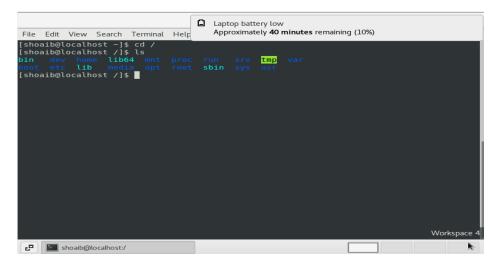


Assignment-3

Working with Directories

- Enter the command cd / and then is and then hit Enter key
 - o Take screenshot and explain what output we got?

Solution: With this command we are at the top level of the folder. Everything is under the / folder. It is the first directory in the filesystem hierarchy.



- Enter the command now **cd /home** and then hit **Enter** key
 - o Do **Is,** provide screenshot and explain what is **/home** directory used for?

Solution: we used the command to change the directory from root directory to the home directory.

The home directory is used to store the user related data such as scripts, files, user information etc

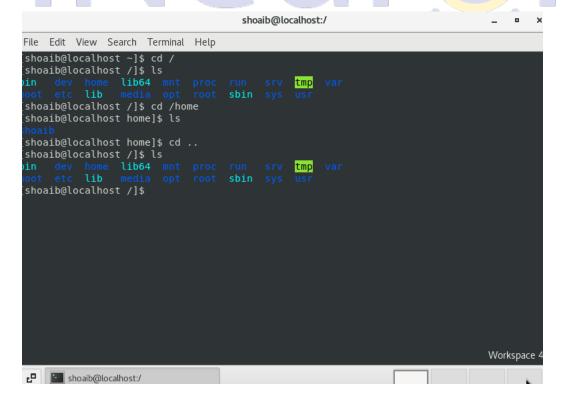
```
File Edit View Search Terminal Help

[shoaib@localhost -]$ cd /
[shoaib@localhost /]$ ls
bin dev home lib64 mnt proc run srv tmp var
boot etc lib media opt root sbin sys usr
[shoaib@localhost /]$ cd /home
[shoaib@localhost home]$ ls
shoaib
[shoaib@localhost home]$ |

Workspace
```

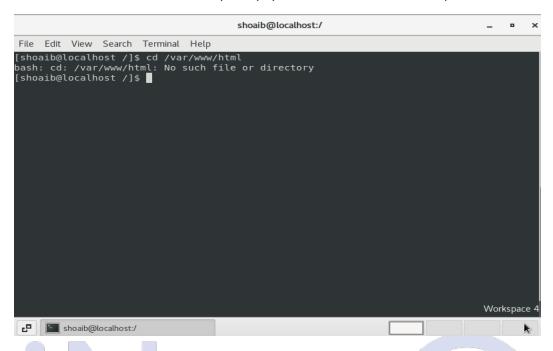
- Enter cd .. and hit Enter key [Note: here we have space after cd then use double dot]
 - Check what happen and give screenshot?

Solution: As we use this command it change the directory from home directory to the /(root Directory). Now we are at the top level or root directory



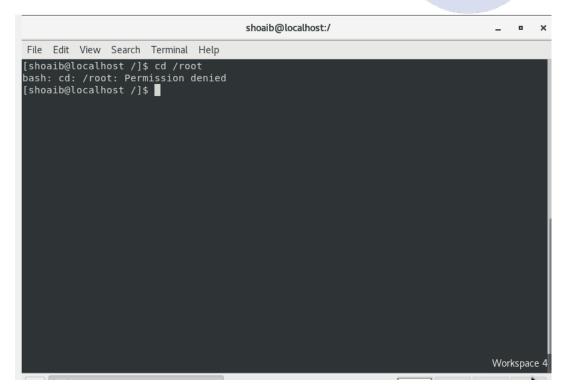
- Now enter cd /var/www/html and then type cd and hit Enter key
 - o Explain what happen and give screenshot?

Solution: There is no such directory in my system as I haven't installed Apache server.



- Now type cd /root and then hit Enter key
 - O Do Is, check any output we have on screen if yes then take screenshot?

Solution: As I was not login as root user or I don't have the required permission to access this root folder.

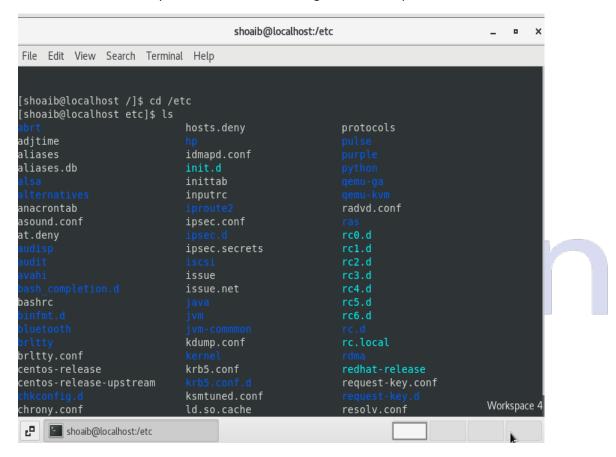


Assignment-4

Working with File Listing

- Go to cd /etc and type Is
 - o Take screenshot and explain what files you have seeing?
 - Take screenshot and explain what different output you found compare to previous command you used?

Solution: It is a directory where all the Linux configuration file is present.



- Then type **is -al** and hit **Enter** key
 - o Take screenshot and explain what new file or directory you found?

Solution: This command provides the details of the file such as the permissions, modification date, size of the file, group, etc.

```
shoaib@localhost:/etc
                                                                                               - ×
File Edit View Search Terminal Help
hosts
                                 profile
hosts.allow
[shoaib@localhost etc]$ clear
[shoaib@localhost etc]$ ls -al
drwxr-xr-x. 139 root root
                                  8192 Oct 17 10:44
                                 224 Oct 16 15:28
101 Oct 16 15:10
                                     16 Oct 16 15:28 adjtime
                                  1529 Apr 1 2020 aliases
                              12288 Oct 16 15:12 aliases.db
-rw-r--r--.
             1 root
3 root root
drwxr-xr-x.
                                   65 Oct 16 15:12
                                4096 Oct 16 22:16 alternat
drwxr-xr-x. 2 root root
                                  541 Jan 13 2022 anacrontab
                1 root root
              1 root root
                                   55 Aug 8 2019 asound.conf
1 May 18 21:24 at.deny
43 Oct 16 15:10 audisp
               1 root root
             1 root
3 root root
drwxr-x---.
drwxr-x---.
                                 71 Oct 16 15:12 avahi
4096 Oct 16 22:14 bash_completion.d
drwxr-xr-x.
                                 2853 Apr 1 2020 bashrc
6 Sep 1 20:27 binfmt.d
23 Oct 16 15:10 bluetooth
drwxr-xr-x.
                2 root root
drwxr-xr-x.
drwxr-xr-x.
                                  12288 Oct 16 15:11 brlt
                                                                                            Workspace 4
                                  21929 Anr 11
                                                 2018 hrlttv.conf
r. shoaib@localhost:/etc
```

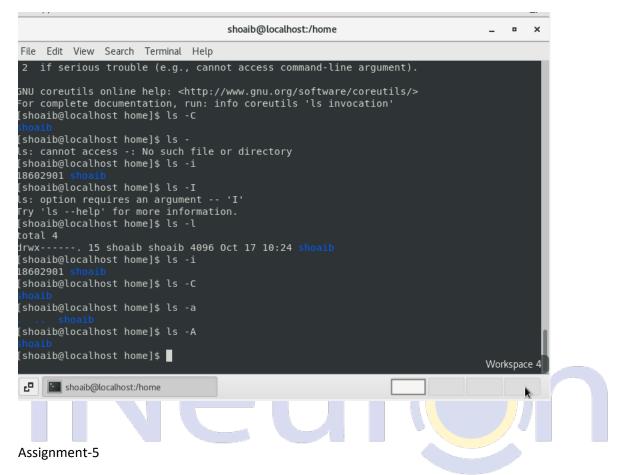
- Then use Is -i and hit Enter key
 - o Now see what different output its shows and take screenshot?

Solution: Displays file serial numbers along with file names.

```
shoaib@localhost:/etc
File Edit View Search Terminal Help
[shoaib@localhost etc]$ ls
                                                        2907046
7903320
                                                        8807305 mke2fs.conf
8951633 modprobe.d
8388778 aliases
9452634 aliases.db
1682706 alsa
                                                        1168808 modu
8388792 motd
7150770
                                                        8388676 mtab
                                                        8646425 mtools.conf
8762671 asound.conf
8708704 at.deny
5993142 audisp
                                                        9166641
                                                        8919025
                                                      9545536 nanorc
17824004 ndctl
                                                      8807326 netconfig
17759378 NetworkMar
74276 bash_c
8388779 bashrc
5807658
                                                        8995047 networks
9190289 nfs.conf
                                                        9190290 nfsmount.conf
8957564 nsswitch.conf
9166205
                                                        8499631 nsswitch.conf.bak
8388777 centos-release
8388712 centos-release-upstream
5206743 chkconfig.d
                                                       26710845 ntp
9046266 numad.conf
9091926 chrony.conf
9091928 chrony.keys
                                                       25993130 oddjob
9073473 oddjobd.conf
```

- Then use **Is -help** and see other options about **Is** command
 - o Explore it and try with other attribute we can use with Is command

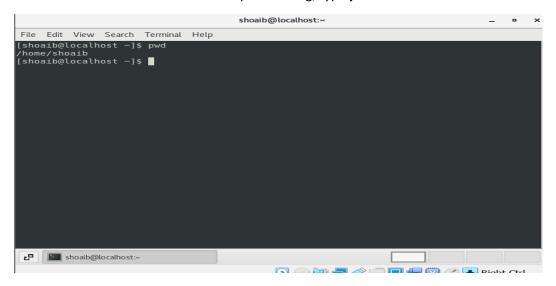
Solution: Some of the command used are Is -a, Is -A, Is -I, Is -C



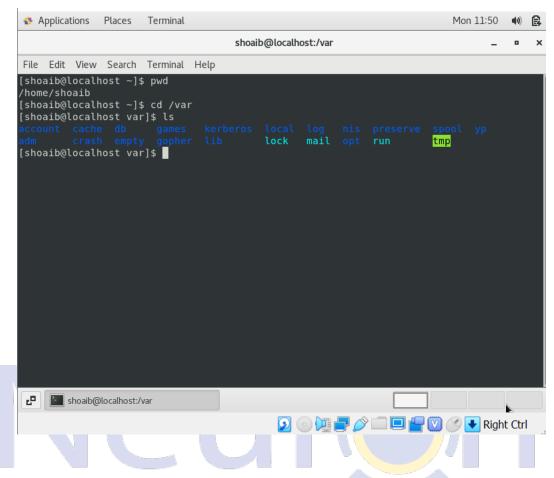
Know where you are and where you working

Here we use **pwd, cd and Is** as combine task to understand where you working on terminal and how you can switch from one directory to another one.

- Open terminal after restart the linux
 - Check which location you working, type pwd and take screenshot



- Now use **cd /var** and hit **Enter** key
 - O Do Is, and see what output comes, give screenshot?



 Do explore other help options of each command to learn more other things we can do with these commands