Assinment1:

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?



If we try to login as a non-existent user, we can't able to login and will gets an error like sorry please try again. Because /etc/passwd directory contains all the General account information of users. when you try to login, linux machine searches for user deatails in /etc/passwd directory

If the details not found it gives output as shown above screenshot.

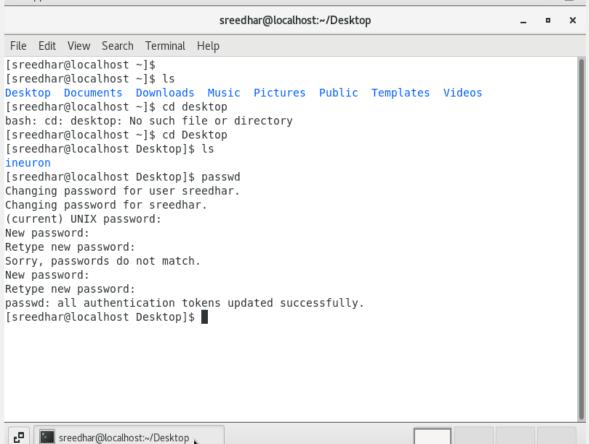
Assignment 2:

Password changing

- Login into your account and then change password?
 - Change your password into *IneuR0n#42* and hit the **Enter** key

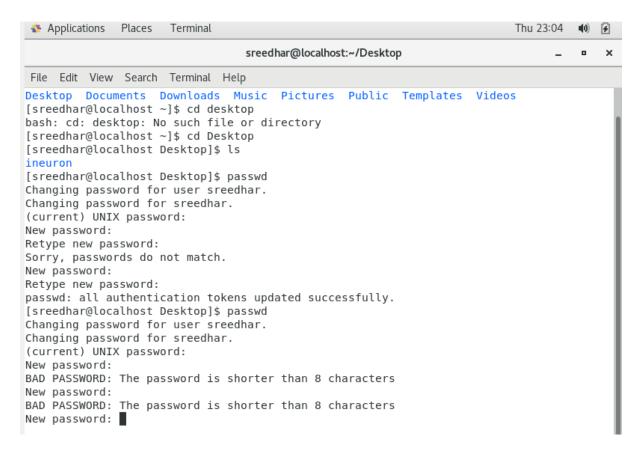
Thu 23:02

Explain what happen and give screenshot? Applications Places sreedhar@localhost:~/Desktop



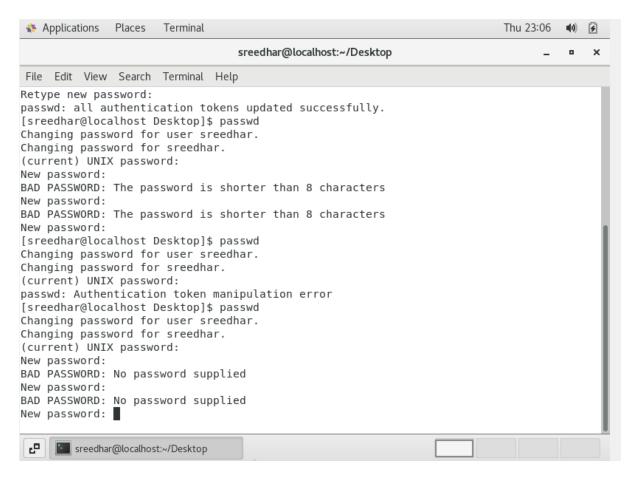
I came to know passwd command is used to change password to a user and /etc/gshadow directory contains password and policy data groups, in the above screenshot we can see all authentication tokens updated successfully that mean the new passwd is updated in the directory.

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



Password length should be minimum 8 Characters, to set strong password we have to use combnation of upper case, lower case, special characters and numbers also.

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

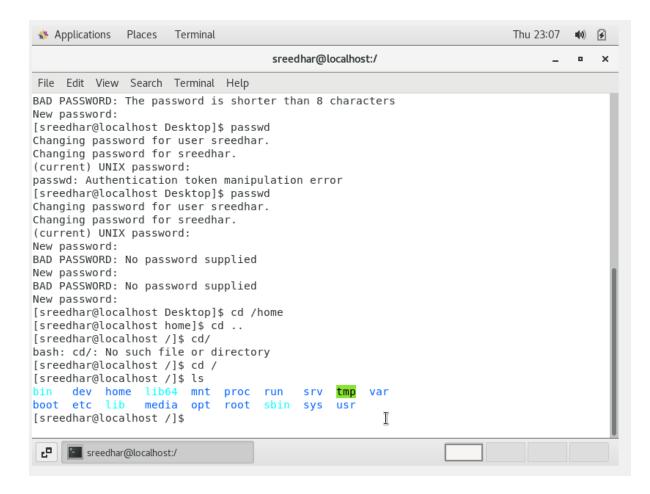


If we don't give anypassword will get an popup no password supplied, because it is mandatory we have to give minimum 8 characters.

Assignment3

Working with Directories

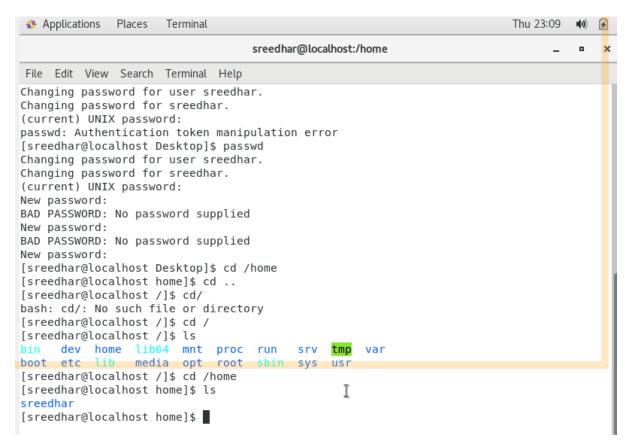
- Enter the command cd / and then is and then hit Enter key
 - o Take screenshot and explain what output we got?



Cd is used to change directory, after giving cd / we entered in to / directory.

Is gives the list of files in a directory and root is the home for all partitions.

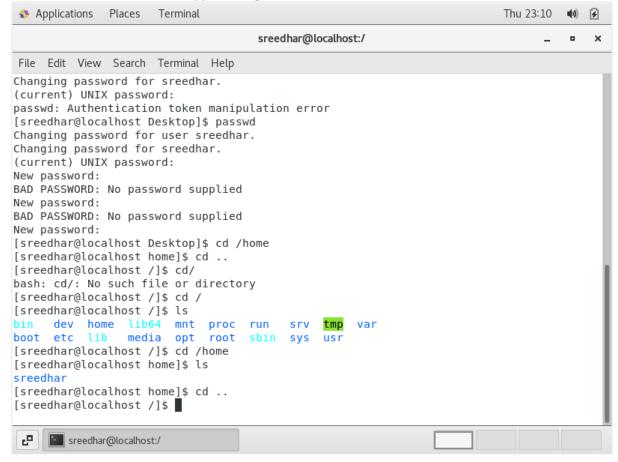
• Enter the command now cd /home and then hit Enter key
Do Is, provide screenshot and explain what is /home directory used for?



cd /home we entered in to home directory , it contains users information or simply we can say users directory

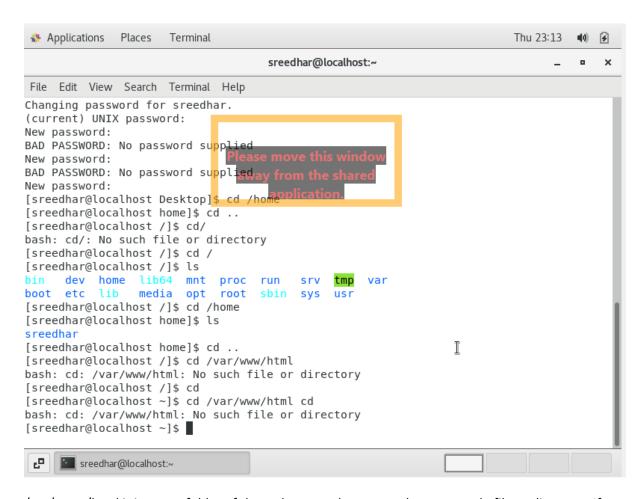
• Enter cd .. and hit Enter key [Note: here we have space after cd then use double dot]

o Check what happen and give screenshot?



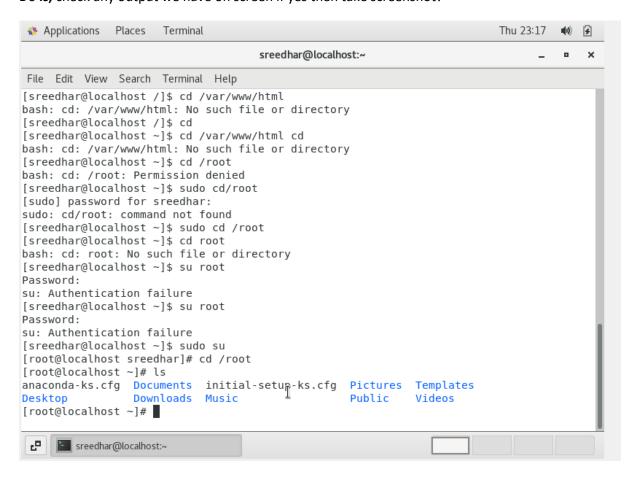
cd .. we will come one step back.

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



/var/www/html it is a root folder of the webserver, the output shows no such file or directory. If we install any web server like apache or inginx all the scripts with .html extension are saved to this directory therefore we can accees and run the scripts from /var/www/html

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



cd /root, user can't run this command directly we need to switch to root users using sudo su command then we can run the command and will get output. We know the function of ls.

Assignment4:

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?

```
File Edit View Search Terminal Help
[sreedhar@localhost ~]$ cd /etc
[sreedhar@localhost etc]$ ls
abrt
                              hosts.deny
                                                         protocols
adjtime
                                                         pulse
aliases
                              idmapd.conf
                                                         purple
aliases.db
                              init.d
                                                         python
alsa
                              inittab
                                                         qemu-ga
alternatives
                              inputro
                                                         gemu-kvm
anacrontab
                                                         radvd.conf
                              iproute2
asound.conf
                              ipsec.conf
                                                         ras
at.deny
                              ipsec.d
                                                         rc0.d
audisp
                              ipsec.secrets
                                                         rc1.d
audit
                              iscsi
                                                         rc2.d
avahi
                              issue
                                                         rc3.d
bash completion.d
                              issue.net
                                                         rc4.d
                                                         rc5.d
bashrc
                              java
binfmt.d
                              ivm
                                                         rc6.d
bluetooth
                              ivm-commmon
                                                         rc.d
brltty
                              kdump.conf
                                                         rc.local
brltty.conf
                              kernel
                                                         rdma
centos-release
                              krb5.conf
                                                         redhat-release
                              krb5.conf.d
                                                         request-key.conf
centos-release-upstream
                              ksmtuned.conf
                                                         request-key.d
chkconfig.d
                              ld.so.cache
chrony.conf
                                                         resolv.conf
                              ld.so.conf
                                                         resolv.conf.save
chrony.keys
                              ld.so.conf.d
cifs-utils
File Edit View Search Terminal Help
                              oddjobd.conf.d
                                                          trusted-key.key
gconf
gcrypt
                              openldap
                                                          tuned
adbinit
                              opt
                                                          udev
gdbinit.d
                              os-release
                                                          udisks2
                                                          unbound
gdm
                              PackageKit
                                                          updatedb.conf
geoclue
                              pam.d
GeoIP.conf
                              papersize
                                                          UPower
                                                          usb modeswitch.conf
ghostscript
                              passwd
glvnd
                              passwd-
                                                          vconsole.conf
                              pbm2ppa.conf
                                                          vimrc
gnupg
GREP COLORS
                              pinforc
                                                          virc
aroff
                              pkcs11
                                                          vmware-tools
group
                              pki
                                                          wgetrc
                              plymouth
                                                          wpa supplicant
group-
                                                          wvdial.conf
grub.d
                              pnm2ppa.conf
                                                          X11
gshadow
                              polkit-1
                                                          xdq
                                                          xinetd.d
gshadow-
                              popt.d
                              postfix
                                                          xml
gss
                                                          yum
gssproxy
                              ppp
                                                          yum.conf
                              prelink.conf.d
host.conf
hostname
                              printcap
                                                          yum.repos.d
hosts
                              profile
hosts.allow
                              profile.d
[sreedhar@localhost etc]$
```

/etc directory contains all the configuration files.

In previous outputs we have seen all partitions under root and user information under home.

• Then type Is -al and hit Enter key

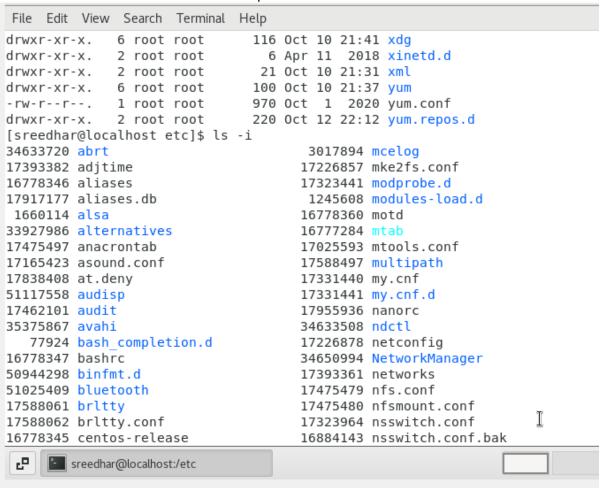
o Take screenshot and explain what new file or directory you found?

```
File Edit View Search Terminal Help
hosts.allow
                            profile.d
[sreedhar@localhost etc]$ ls -al
total 1372
drwxr-xr-x. 139 root root 8192 Oct 13 23:02 .
                             245 Oct 12 21:08 ..
dr-xr-xr-x. 17 root root
                              101 Oct 10 21:40 abrt
drwxr-xr-x. 3 root root
drwxr-x---. 3 ro∰t root
drwxr-x---. 3 root root
drwxr-xr-x. 4 root root
                               71 Oct 10 21:52 avahi
drwxr-xr-x. 2 root root 4096 Oct 12 22:28 bash_completion.d
-rw-r--r-. 1 root root 2853 Apr 1 2020 bashrc
drwxr-xr-x. 2 root root
                               6 Sep 1 20:27 binfmt.d
drwxr-xr-x. 2 root root
                                23 Oct 10 21:39 bluetooth
drwxr-xr-x. 2 root root
                            12288 Oct 10 21:45 brltty
            1 root root
                             21929 Apr 11 2018 brltty.conf
-rw-r--r-.
            1 root root
                             37 Nov 23 2020 centos-release
-rw-r--r-.
            1 root root
                                51 Nov 23 2020 centos-release-upstream
-rw-r--r--.
                                 6 Oct 13 2020 chkconfig.d
drwxr-xr-x.
             2 root root
```

Ls –al Displays all files and directories along with hidden files

• Then use Is -i and hit Enter key

o Now see what different output its shows and take screenshot?



Is -i Displays inode number of all files and directories

- 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

```
File Edit View Search Terminal Help
[sreedhar@localhost etc]$ ls --help
Usage: ls [OPTION]... [FILE]...
List information about the FILEs (the current directory by default).
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.
Mandatory arguments to long options are mandatory for short options too.
                             do not ignore entries starting with .
  -a, --all
  -A, --almost-all
                             do not list implied . and ..
     --author
                             with -l, print the author of each file
      --escape print C-style escapes for nongraphic characters scale sizes by SIZE before printing them; e.g.,
  -b, --escape
                                '--block-size=M' prints sizes in units of
                               1,048,576 bytes; see SIZE format below
  -B, --ignore-backups
                             do not list implied entries ending with ~
                             with -lt: sort by, and show, ctime (time of last
                               modification of file status information);
                               with -lt: show ctime and sort by name;
                               otherwise: sort by ctime, newest first
                             list entries by columns
  - C
      --color[=WHEN]
                             colorize the output; WHEN can be 'never', 'auto',
                               or 'always' (the default); more info below
  -d, --directory
                             list directories themselves, not their contents
                             generate output designed for Emacs' dired mode
  -D, --dired
  - f
                             do not sort, enable -aU, disable -ls --color
  -F, --classify
                             append indicator (one of */=>@|) to entries
      --file-type
                             likewise, except do not append
 sreedhar@localhost:/etc
```

Is –help displays all information about the other commands and details.

Assignment5:

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

```
File Edit View Search Terminal Help

[sreedhar@localhost ~]$ pwd
/home/sreedhar
[sreedhar@localhost ~]$
```

PWD – displays the present working directory

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

```
File Edit View Search Terminal Help

[sreedhar@localhost ~]$ pwd
/home/sreedhar
[sreedhar@localhost ~]$ cd /var
[sreedhar@localhost var]$ ls
account cache db games kerberos local log nis preserve spool yp
adm crash empty gopher lib lock mail opt run tmp

[sreedhar@localhost var]$ | |
```

/var diecttory contains Variaeble data files such as logs, audit data and temporary files.

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

```
[sreedhar@localhost var]$ ls -l
total 20
             2 root root
drwxr-xr-x.
                           19 Oct 10 21:52 account
             2 root root
                            6 Apr 11
drwxr-xr-x.
                                      2018 adm
drwxr-xr-x. 12 root root 141 Oct 10 22:16 cache
drwxr-xr-x. 2 root root
                            6 Oct
                                   1
                                      2020 crash
                           34 Oct 12 22:13 db
           3 root root
drwxr-xr-x.
drwxr-xr-x. 3 root root
                          18 Oct 10 21:52 empty
           2 root root
                            6 Apr 11
drwxr-xr-x.
                                      2018 games
drwxr-xr-x.
           2 root root
                            6 Apr 11
                                      2018 gopher
drwxr-xr-x. 3 root root
                           18 Jun 28 21:01 kerberos
drwxr-xr-x. 57 root root 4096 Oct 10 22:03 lib
drwxr-xr-x. 2 root root
                            6 Apr 11
                                     2018 local
                           11 Oct 10 21:28 lock -> ../run/lock
lrwxrwxrwx.
            1 root root
drwxr-xr-x. 18 root root 4096 Oct 14 22:41 log
lrwxrwxrwx.
            1 root root
                           10 Oct 10 21:28 mail -> spool/mail
                            6 Apr 11
drwxr-xr-x.
            2 root root
                                      2018 nis
drwxr-xr-x. 2 root root
                            6 Apr 11
                                      2018 opt
           2 root root
                            6 Apr 11
drwxr-xr-x.
                                      2018 preserve
lrwxrwxrwx.
           1 root root
                            6 Oct 10 21:28 run -> ../run
drwxr-xr-x. 12 root root 140 Oct 10 21:52 spool
drwxrwxrwt. 72 root root 8192 Oct 14 22:45 tmp
drwxr-xr-x.
             2 root root
                            6 Apr 11 2018 yp
[sreedhar@localhost var]$
```