

- **Assignment 1**

```
su: user saurav does not exist or the user entry does not contain all the required fields
evify@evify-H110:~/Desktop$ sudo su saurav
[sudo] password for evify:
su: user saurav does not exist or the user entry does not contain all the required fields
evify@evify-H110:~/Desktop$
```

When logging with non existent user it will give user does not exists

Assignment 2

```
$ passwd
Changing password for Ineuron42.
Current password:
New password:
BAD PASSWORD: The password is the same as the old one
xNew password:
Retype new password:
passwd: password updated successfully
$
```

When Logged in to use and try to change the password I am successfully able to change the password

```
Changing password for Ineuron42.
Current password:
New password:
BAD PASSWORD: The password is shorter than 8 characters
New password:
```

When I insert 1234 in new password i got error of bad password for character is not long enough

```
BAD PASSWORD: No password supplied
New password:
```

If I try not Insert anything in password i got Bad password with message no password supplied

Assignment 3

```
evify@evify-H110:~/Desktop$ cd /  
evify@evify-H110:/$
```

When i use cd / command i will go to root directory.

```
evify@evify-H110:/$ cd /home  
evify@evify-H110:/home$ ls  
evify Ineuron42  
evify@evify-H110:/home$
```

Home directory is use to store the user data and home is a default directory

```
evify@evify-H110:/home$ cd ..  
evify@evify-H110:/$
```

When i write command cd .. I go to previous directory

```
evify@evify-H110:/$ cd /var/www/html  
evify@evify-H110:/var/www/html$
```

By cd /var/www/html command i go to this directory

```
evify@evify-H110:/var/www/html$ cd /root  
bash: cd: /root: Permission denied
```

When i try to cd /root i got permission denied message

Assignment 4

```
evlry@evlry-H110:/5 cd /etc
evlry@evlry-H110:/etc$ ls
acpi                  ca-certificates.conf      emacs                    gtk-2.0               ld.so.conf            mecabrc                pam.d                  qemu-lfup              skel                   udisks2
adduser.conf         ca-certificates.conf.dpkg-old  environment             gtk-3.0               ld.so.conf.d          mime.types              papersize              rc0.d                  snmp                   ufw
alsa                 chatscripts                etherypes               hdparrn.conf          legal                 mke2fs.conf            passwd                rc1.d                  speech-dispatcher     update-manager
alternatives         console-setup              firefox                 host.conf              libaa.conf            ModemManager           passwd-               rc2.d                  ssh                    update-notifd.d
anacrontab           cracklib                   fonts                   hostname               libaudit.conf         modprobe.d             pcnctia              rc3.d                  ssl                    update-notifier
anydesk              cron.d                     fprintd.conf           hosts                  libblockdev           modules                perl                  rc4.d                  subgid                UPower
apache2              cron.dally                 fstab                  hosts.allow            libbibtex.d           modules-load.d         php                   rc5.d                  subgid-               usb_modeswitch.conf
apng.conf            cron.hourly                fuse.conf              hosts.deny             libbibtex.d           modules-load.d         phpmyadntn           rc6.d                  subuid               usb_modeswitch.d
apm                  cron.monthly               fwupd                  hosts.deny             libbibtex.d           modules-load.d         pki                   rc7.d                  subuid-              vln
apparmor             cronstab                   gal.conf               hp                     libreoffice            nanorc                  pm                     resolv.conf           sudo.conf            vtrgb
apparmor.d           cron.weekly                gdb                    ifplugd               lighttpd              netconfig              pnm2ppa.conf          rmt                    sudoers               vulkan
appport              cups                       gdb                    init                  locale.alias          netplan                 polkit-1              rpc                     sudoers.d             wgetrc
appstream.conf       cupshelpers               gdm3                  init.d                locale.gen            network                 postgresql            rsyslog.conf          sudo_logsrvd.conf    wpa_supplicant
apt                  dbus-1                     geoclue                inputrc               logrotate             NetworkManager          postgresql-common     rsyslog.d             sysctl.conf          x11
avahi                 dconf                      gitconfig              lvmnd                 logrotate.d           networks                ppp                   sane.d                 sysstat               xattr.conf
bash.bashrc          debconf.conf              glvnd                  lvmn                   logrotate.d           nftables.conf          printcap              security               systemd              xdg
bash_completion      debconf-version           gnome                  lvmn                   logrotate.d           nftables.conf          profile               selinux                terminfo              xml
bash_completion.d    default                    groff                  issue                  lsb-release           nginx                   protocols             sensors3.conf          thermald              zsh_command_not_found
bindresvport.blacklist  binfmt.d                  group                  issue.net              machine-id             nsswitch.conf          pulse                 sensors.d              thunderbird
bluetooth            depmod.d                  group                  kernel                 machine-id             nsswitch.conf          python3               services              timezone
brlapi.key           dhcp                      grub.d                kernel-img.conf        magic.mtne            openvpn                 python3.10             sgml                   tnpfiles.d            ubuntu-advantage
brltty               dictionaries-common       gshadow               kernelloops.conf       mailcap               os-release              python3.11             shadow                 ucf.conf              udev
brltty.conf          dpkg                      gshadow               ld.so.cache            manpath.conf          PackageKit              python3.9              shadow-                ucf.conf              udev
ca-certificates      _e2scrub.conf             gss                    ld.so.cache            manpath.conf          PackageKit              python3.9              shadow-                ucf.conf              udev
```

In side etc i got too many files most of conf file and all system related file i got

```

evify@evify-H110:/etc$ ls -al
total 1252
drwxr-xr-x 143 root    root    12288 Oct  7 17:55 .
drwxr-xr-x  20 root    root    4096 Jan 31 2024 ..
drwxr-xr-x   3 root    root    4096 Aug  8 2023 acpi
-rw-r--r--   1 root    root    3028 Aug  8 2023 adduser.conf
drwxr-xr-x   3 root    root    4096 Aug  8 2023 alsa
drwxr-xr-x   2 root    root   20480 Aug 27 10:54 alternatives
-rw-r--r--   1 root    root     335 Mar 23 2022 anacrontab
drwxr-xr-x   2 root    root    4096 Feb  8 2024 anydesk
drwxr-xr-x   8 root    root    4096 Jul 20 11:50 apache2
-rw-r--r--   1 root    root     433 Mar 23 2022 apg.conf
drwxr-xr-x   5 root    root    4096 Aug  8 2023 apm
drwxr-xr-x   3 root    root    4096 Sep  9 10:20 apparmor
drwxr-xr-x   8 root    root    4096 Sep 27 10:32 apparmor.d
drwxr-xr-x   4 root    root    4096 Aug 27 10:57 appport
-rw-r--r--   1 root    root     769 Feb 22 2022 appstream.conf
drwxr-xr-x   8 root    root    4096 Jul  3 14:49 apt
drwxr-xr-x   3 root    root    4096 Jan 31 2024 avahi
-rw-r--r--   1 root    root    2319 Jan  6 2022 bash.bashrc
-rw-r--r--   1 root    root      45 Nov 11 2021 bash_completion
drwxr-xr-x   2 root    root    4096 Aug 27 10:57 bash_completion.d
-rw-r--r--   1 root    root     367 Dec 16 2020 bindresvport.blacklist
drwxr-xr-x   2 root    root    4096 Apr  8 2022 binfmt.d
drwxr-xr-x   2 root    root    4096 Jun  7 10:40 bluetooth
-rw-r--r--   1 root    root      33 Aug  8 2023 brlapi.key
drwxr-xr-x   7 root    root    4096 Aug  8 2023 brltty
-rw-r--r--   1 root    root   29219 Jun 28 2022 brltty.conf
drwxr-xr-x   3 root    root    4096 Aug  8 2023 ca-certificates
-rw-r--r--   1 root    root    6890 Sep 26 11:19 ca-certificates.conf
-rw-r--r--   1 root    root    6253 Aug  8 2023 ca-certificates.conf.dpkg-old
drwxr-xr-x   2 root    dip     4096 Aug  8 2023 chatscripts
drwxr-xr-x   2 root    root    4096 Jan 31 2024 console-setup
drwxr-xr-x   2 root    root    4096 Aug  8 2023 cracklib

```

Configuration Files: Many system-wide configuration files for applications and services.

Subdirectories: Directories such as `network`, `systemd`, and `init.d`, which contain scripts and settings related to system startup and services.

```

evlvy@evlvy-H110:/etc$ ls -l
11534344 acpi
11534474 adduser.conf
11534345 alsa
11534346 alternatives
11534475 anacrontab
11537444 anydesk
11535913 apache2
11534476 app.conf
11534347 apt
11534348 apparmor
11534349 apparmor.d
11534350 appport
11534477 appstream.conf
11534351 apt
11534352 avahi
11534478 bash.bashrc
11534479 bash_completion
11534353 bash_completion.d
11534400 bindresolvport.blacklist
11534354 binfmt.d
11534355 bluetooth
11534481 brlapi.key
11534356 britty
11534482 britty.conf
11534357 ca-certificates
11534505 ca-certificates.conf
11534483 ca-certificates.conf.dpkg-old
11534358 chatscripts
11534360 console-setup
11534361 cracklib
11534362 cron.d
11534363 cron.daily
11534364 cron.hourly
11534365 cron.monthly
11534405 cronstab
11534366 cron.weekly
11534368 cups
11534369 cupshelpers
11537096 dbusconfig-common
11534370 dbus-1
11534371 dconf
11534486 debconf.conf
11534487 debian_version
11534372 default
11534488 deluser.conf
11534373 depmod.d
11534374 dhcp
11534375 dictionaries-common
11534376 dpkg
11534489 e2scrub.conf
11534377 enacs
11534490 environment
11534378 environment.d
11534491 ethertypes
11534379 firefox
11534380 fonts
11534492 fprintd.conf
11534338 fstab
11534493 fuse.conf
11534381 fwupd
11534494 gal.conf
11534382 gdb
11534383 gdbn3
11534384 geoclue
11534495 ghostscript
11537843 gltconf
11534386 glvnd
11534387 gnome
11534388 groff
11534493 group
11534496 group
11534389 grub.d
11537873 gshadow
11537322 gshadow-
11534390 gss
11534391 gtk-2.0
11534392 gtk-3.0
11534497 hdparm.conf
11534498 host.conf
11534499 hostid
11534500 hostname
11534501 hosts
11534502 hosts.allow
11534503 hosts.deny
11534393 hp
11534394 hpplugd
11534395 init
11534396 init.d
11534397 initramfs-tools
11534504 inputrc
11534398 inserv.conf.d
11534399 ipmi-usb
11534400 iproute2
11537449 issue
11537452 issue.net
11534401 kernel
11537324 kernel-img.conf
11534505 kerneloops.conf
11534404 ldap
11534484 ld.so.cache
11534510 ld.so.conf
11534403 ld.so.conf.d
11534511 legal
11534512 libao.conf
11534513 libaudit.conf
11534405 libblockdev
11537505 libbverbs.d
11534406 libbtl-3
11534407 libpaper.d
11534408 libreoffice
11535990 lighttpd
11534514 locale.allas
11537029 locale.gen
11534838 localtime
11534409 logcheck
11534517 logn.defs
11534518 logrotate.conf
11534410 logrotate.d
11537458 lsb-release
11534520 machine-id
11534521 magic
11534522 magic.mine
11535612 mailcap
11534524 mailcap.order
11534525 manpath.conf
11537470 mecabrc
11534526 mime.types
11534527 mke2fs.conf
11534339 ModemManager
11534412 modprobe.d
11534528 modules
11534413 modules-load.d
11534523 ntab
11537465 mysql
11534530 nanoirc
11534531 netconfig
11534414 netplan
11534415 network
11534416 networkd-dispatcher
11534340 NetworkManager
11534532 networks
11534417 newt
11534533 nftables.conf
11665411 ngnix
11534367 nsswitch.conf
11534418 openvpn
11534419 opt
11537859 os-release
11534534 PackageKit
11534536 pan.conf
11534420 pan.d
11534537 papersize
11537878 passwd
11537321 passwd-
11534421 pcnclia
11534422 perl
11537867 shadow
11537704 phpmyadmin
11534423 pki
11534424 pm
11534539 pm2ppa.conf
11534425 polkit-1
11536121 postgresql
11536116 postgresql-common
11534426 ppp
11534472 printcap
11534540 profile
11534427 profile.d
11534541 protocols
11534428 pulse
11534429 python3
11534430 python3-10
11535806 python3-11
11665409 python3.9
11537503 qemu-lfdown
11537504 qemu-lfup
11534431 rc0.d
11534432 rc1.d
11534433 rc2.d
11534434 rc3.d
11534435 rc4.d
11534436 rc5.d
11534437 rc6.d
11534438 rc5.d
11534542 resolv.conf
11534982 rmt
11534544 rpc
11534545 rsyslog.conf
11534440 rsyslog.d
11534546 rygel.conf
11534441 sane.d
11534442 security
11534443 selinux
11534547 sensors3.conf
11534444 sensors.d
11534548 services
11534445 sgml
11537867 shadow
11534538 shadow-
11534550 shells
11534446 skel
11534447 snmp
11534448 speech-dispatcher
11534449 ssh
11534450 ssl
11537876 subgid
11534552 subgid-
11537875 subuid
11537326 subuid-
11534553 sudo.conf
11534428 sudoers
11534454 sudo_logsrvd.conf
11534556 sysctl.conf
11534453 sysctl.d
11534454 sysstat
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11534999 sysstat
11535000 sysstat

```

I found some integer number before each file

```

evlvy@evlvy-H110:/etc$ ls --help
Usage: ls [OPTION]... [FILE]...
List information about the FILES (the current directory by default).
Sort entries alphabetically if none of -ctvuSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.
-A, --all                          do not ignore entries starting with .
-a, --almost-all                  do not list implied . and ..
--author                           with -l, print the author of each file
-b, --escape                       print C-style escapes for nongraphic characters
--block-size=SIZE                  with -l, scale sizes by SIZE when printing them;
                                  e.g., '--block-size=M'; see SIZE format below
-B, --ignore-backups               do not list implied entries ending with ~
-c                                with -lt: sort by, and show, ctime (time of last
                                  modification of file status information);
                                  with -l: show ctime and sort by name;
                                  otherwise: sort by ctime, newest first
-C                                list entries by columns
--color[=WHEN]                    colorize the output; WHEN can be 'always' (default
                                  if omitted), 'auto', or 'never'; more info below
-d, --directory                   list directories themselves, not their contents
-D, --dired                       generate output designed for Emacs' dired mode
-f                                do not sort, enable -au, disable -ls --color
-F, --classify                    append indicator (one of */=>@|) to entries
--file-type                       likewise, except do not append '*'
--format=WORD                      across -x, commas -m, horizontal -x, long -l,
                                  single-column -1, verbose -l, vertical -C
--full-time                       like -l --time-style=full-iso
-g                                like -l, but do not list owner
--group-directories-first          group directories before files;

```

I got all the help regarding to ls command

Assignment 5

```
evify@evify-H110:~/Desktop$ pwd  
/home/evify/Desktop  
evify@evify-H110:~/Desktop$
```

I got the present working directory path

```
evify@evify-H110:/var$ ls  
backups  crash  local  log    metrics  run    spool  www  
cache    lib    lock   mail   opt      snap   tmp  
evify@evify-H110:/var$
```

I got file related to log cache etc