- **Assignment 1**

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
New 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 charactor 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

```
evify@evify-H110:/$ cd /etc
evify@evify-H110:/etc$ ls
acpi                      ca-certificates.conf            emacs           gtk-2.0           ld.so.conf        mecabrc             pam.d             qemu-ifup        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                     environment.d   hdparm.conf       legal             mke2fs.conf       passwd            rc1.d            speech-dispatcher  update-manager
alternatives             console-setup                   ethertypes      host.conf         libao.conf        ModemManager      passwd-           rc2.d            ssh                update-motd.d
anacrontab               cracklib                        firefox         hostid            libaudit.conf     modprobe.d        pcmcia            rc3.d            ssl                update-notifier
anydesk                  cron.d                          fonts           hostname          libblockdev       modules           perl             rc4.d            subgid             UPower
apache2                  cron.daily                      fprintd.conf    hosts             libblverbs.d      modules-load.d    php              rc5.d            subgid-            usb_modeswitch.conf
apg.conf                 cron.hourly                     fstab           hosts.allow       libnl-3           mtab              phpmyadmin        rc6.d            subuid             usb_modeswitch.d
apm                      cron.monthly                    fuse.conf       hosts.deny        libpaper.d        mysql             pki              rcS.d            subuid-            vim
apparmor                 crontab                         fwupd           hp                libreoffice       nanorc            pm               resolv.conf      sudo.conf          vtrgb
apparmor.d               cron.weekly                     gai.conf        ifplugd           lighttpd          netconfig         pnm2ppa.conf      rmt              sudoers            vulkan
apport                   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                      dbconfig-common                 geoclue         initramfs-tools   localtime         networkd-dispatcher postgresql-common rsyslog.d        sysctl.conf        X11
avahi                    dbus-1                          ghostscript     inputrc           logcheck          NetworkManager    ppp              rygel.conf       sysctl.d           xattr.conf
bash.bashrc              dconf                           gitconfig       insserv.conf.d    login.defs        networks          printcap          sane.d           sysstat            xdg
bash_completion          debconf.conf                    glvnd           ipp-usb           logrotate.conf    newt              profile           security         systemd            xml
bash_completion.d        debian_version                  gnome           iproute2          logrotate.d       nftables.conf     profile.d         selinux          systemd            zsh_command_not_found
bindresvport.blacklist   default                         groff           issue             lsb-release       nginx             protocols         sensors3.conf    thermald
binfmt.d                 deluser.conf                    group           issue.net         machine-id        nsswitch.conf     pulse            sensors.d        thunderbird
bluetooth                depmod.d                        group-          kernel            magic             openvpn           python3          services         timezone
brlapi.key               dhcp                            grub.d          kernel-img.conf   magic.mime        opt               python3.10        sgml             tmpfiles.d
brltty                   dictionaries-common             gshadow         kerneloops.conf   mailcap           os-release        python3.11        shadow           ubuntu-advantage
brltty.conf              dpkg                            gshadow-        ldap              mailcap.order     PackageKit        python3.9         shadow-          ucf.conf
ca-certificates          e2scrub.conf                    gss             ld.so.cache       manpath.config    pam.conf          qemu-ifdown       shells           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 apport
-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-----   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-s---   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.

```
evify@evify-H110:/etc$ ls -i
11534344 acpi                          11534486 debconf.conf        11534502 hosts.allow       11534524 mailcap.order      11534426 ppp                11537876 subgid
11534474 adduser.conf                  11534487 debian_version      11534503 hosts.deny        11534525 manpath.config     11534472 printcap           11534552 subgid-
11534345 alsa                          11534372 default             11534393 hp                11537470 mecabrc            11534540 profile            11537875 subuid
11534346 alternatives                  11534488 deluser.conf        11534394 ifplugd           11534526 mime.types         11534427 profile.d          11537326 subuid-
11534475 anacrontab                    11534373 depmod.d            11534395 init              11534527 mke2fs.conf        11534541 protocols          11534553 sudo.conf
11537444 anydesk                       11534374 dhcp                11534396 init.d            11534339 ModemManager       11534428 pulse              11534555 sudoers
11535913 apache2                       11534375 dictionaries-common 11534397 initramfs-tools   11534412 modprobe.d         11534429 python3            11534452 sudoers.d
11534476 apg.conf                      11534376 dpkg                11534504 inputrc           11534528 modules            11534430 python3.10         11534554 sudo_logsrvd.conf
11534347 apm                           11534489 e2scrub.conf        11534398 insserv.conf.d    11534413 modules-load.d     11535806 python3.11         11534556 sysctl.conf
11534348 apparmor                      11534377 emacs               11534399 ipp-usb           11534523 mtab               11665409 python3.9          11534453 sysctl.d
11534349 apparmor.d                    11534400 environment         11534400 iproute2          11537465 mysql              11537503 qemu-ifdown        11536126 sysstat
11534350 apport                        11534378 environment.d       11537449 issue            11534530 nanorc             11537504 qemu-ifup          11534454 systemd
11534477 appstream.conf                11534491 ethertypes          11537452 issue.net        11534531 netconfig          11534431 rc0.d              11534455 terminfo
11534351 apt                           11534379 firefox             11534401 kernel           11534414 netplan            11534432 rc1.d              11534456 thermald
11534352 avahi                         11534380 fonts               11537324 kernel-img.conf  11534415 network            11534433 rc2.d              11537457 thunderbird
11534478 bash.bashrc                   11534402 fprintd.conf        11534508 kerneloops.conf  11534416 networkd-dispatcher 11534434 rc3.d             11534716 timezone
11534479 bash_completion               11534338 fstab               11534340 ldap            11534340 NetworkManager     11534435 rc4.d              11534458 tmpfiles.d
11534353 bash_completion.d             11534493 fuse.conf           11534484 ld.so.cache      11534532 networks           11534436 rc5.d              11534459 ubuntu-advantage
11534480 bindresvport.blacklist        11534494 gai.conf            11534510 ld.so.conf       11534417 newt               11534437 rc6.d              11534558 ucf.conf
11534354 binfmt.d                      11534382 gdb                 11534403 ld.so.conf.d     11534533 nftables.conf      11534438 rcS.d              11534460 udev
11534355 bluetooth                     11534383 gdm3                11534511 legal            11665411 nginx              11534542 resolv.conf        11534461 udisks2
11534481 brlapi.key                    11534384 geoclue             11534512 libao.conf       11534367 nsswitch.conf      11534982 rmt                11534462 ufw
11534356 brltty                        11534385 ghostscript         11534513 libaudit.conf    11534418 openvpn            11534544 rpc                11534463 update-manager
11534482 brltty.conf                   11537843 gitconfig           11534505 libblockdev      11534419 opt                11534545 rsyslog.conf       11534464 update-motd.d
11534357 ca-certificates               11534386 glvnd               11537505 libibverbs.d     11537859 os-release         11534440 rsyslog.d          11534465 update-notifier
11534505 ca-certificates.conf          11534387 gnome               11534406 libnl-3          11534341 PackageKit         11534546 rygel.conf         11534342 UPower
11534483 ca-certificates.conf.dpkg-old 11534388 groff               11534407 libpaper.d       11534536 pam.conf           11534441 sane.d             11534559 usb_modeswitch.conf
11534358 chatscripts                   11534843 group               11534408 libreoffice      11534420 pam.d              11534442 security           11534466 usb_modeswitch.d
11534360 console-setup                 11534514 group-              11535990 lighttpd         11534537 papersize          11534443 selinux            11534467 vim
11534361 cracklib                      11534389 grub.d              11534514 locale.alias     11537878 passwd             11534547 sensors3.conf      11534560 vtrgb
11534362 cron.d                        11537873 gshadow             11537029 locale.gen       11537321 passwd-            11534444 sensors.d          11534468 vulkan
11534363 cron.daily                    11537322 gshadow-            11534838 localtime        11534421 pcmcia             11534548 services           11534561 wgetrc
11534364 cron.hourly                   11534390 gss                 11534409 logcheck         11534422 perl               11534445 sgml               11534469 wpa_supplicant
11534365 cron.monthly                  11534391 gtk-2.0             11534517 login.defs       11537699 php                11537867 shadow             11534343 X11
11534485 crontab                       11534392 gtk-3.0             11534518 logrotate.conf   11537704 phpmyadmin         11534538 shadow-            11534562 xattr.conf
11534366 cron.weekly                   11534497 hdparm.conf         11534410 logrotate.d      11534423 pki                11534550 shells             11534470 xdg
11534368 cups                          11534498 host.conf           11537458 lsb-release      11534424 pm                 11534446 skel               11534471 xml
11534369 cupshelpers                   11534499 hostid              11534520 machine-id       11534539 pnm2ppa.conf       11534447 snmp               11534563 zsh_command_not_found
11537696 dbconfig-common               11534500 hostname            11534521 magic            11534425 polkit-1           11534448 speech-dispatcher
11534370 dbus-1                        11534501 hosts               11534522 magic.mime       11536121 postgresql         11534449 ssh
11534371 dconf                                                      11535612 mailcap          11536116 postgresql-common  11534450 ssl
```

I found some integer number before each file


```
evify@evify-H110:/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.
  -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