1. Create 5 Users – using **useradd** cmd
   a. Kevin
   b. Marie
   c. adrian
   d. Laura
   e. einstein

```
[root@sid /]# useradd kevin
[root@sid /]# useradd Marie
[root@sid /]# ls
afs  bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
[root@sid /]# cd home
[root@sid home]# ls
kevin  Marie  sid  siddharrth
[root@sid home]# su - Marie
[Marie@sid ~]$ exit
logout
[root@sid home]# useradd adrain
[root@sid home]# useradd laura
[root@sid home]# useradd einstein
[root@sid home]#
```

2. Change your Password

```
[siddharrth@sid ~]$ passwd
Changing password for user siddharrth.
Current password:
New password:
BAD PASSWORD: The password is shorter than 8 characters
passwd: Authentication token manipulation error
[siddharrth@sid ~]$
```

3. Set password for einstein,kevin and laura

```
[root@sid siddharrth]# passwd einstein
Changing password for user einstein.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@sid siddharrth]# passwd kevin
Changing password for user kevin.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@sid siddharrth]# passwd laura
Changing password for user laura.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@sid siddharrth]#
```

4. Change Bob and Kevin Password

```
[root@sid siddharrth]# passwd bob
Changing password for user bob.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@sid siddharrth]# passwd kevin
Changing password for user kevin.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
```

5. Create 5 empty files under your home directory (under your username) using
   touch cmd a. maths

   b. science

   c. History

   d. english

   e. Social

```
[siddharrth@sid linux]$ touch maths
[siddharrth@sid linux]$ ls
maths
[siddharrth@sid linux]$ touch science History english Social
[siddharrth@sid linux]$ ls
english  History  maths  science  Social
[siddharrth@sid linux]$
```

6. Go to " / " directory from your **home directory** and list down all the files using
   a. ls

   b. ls -la

   c. ls –ltr

```
[siddharrth@sid ~]$ cd /
[siddharrth@sid /]$ ls
afs   bin   boot   dev   etc   home   lib   lib64   media   mnt   opt   proc   root
[siddharrth@sid /]$ ls -la
total 28
dr-xr-xr-x.   18 root root   235 Oct   1 12:15 .
dr-xr-xr-x.   18 root root   235 Oct   1 12:15 ..
dr-xr-xr-x.    2 root root     6 Jun 25 19:53 afs
lrwxrwxrwx.    1 root root     7 Jun 25 19:53 bin -> usr/bin
dr-xr-xr-x.    5 root root  4096 Oct   1 17:33 boot
drwxr-xr-x.   20 root root  3440 Oct   1 17:34 dev
drwxr-xr-x.  133 root root  8192 Oct   1 18:43 etc
drwxr-xr-x.   10 root root   115 Oct   1 18:36 home
lrwxrwxrwx.    1 root root     7 Jun 25 19:53 lib -> usr/lib
lrwxrwxrwx.    1 root root     9 Jun 25 19:53 lib64 -> usr/lib64
drwxr-xr-x.    2 root root     6 Jun 25 19:53 media
drwxr-xr-x.    3 root root    18 Jun 25 19:53 mnt
drwxr-xr-x.    2 root root     6 Jun 25 19:53 opt
dr-xr-xr-x.  328 root root     0 Oct   1 17:33 proc
dr-xr-x---.   14 root root  4096 Oct   1 18:44 root
drwxr-xr-x.   47 root root  1240 Oct   1 17:34 run
lrwxrwxrwx.    1 root root     8 Jun 25 19:53 sbin -> usr/sbin
drwxr-xr-x.    2 root root     6 Jun 25 19:53 srv
dr-xr-xr-x.   13 root root     0 Oct   1 17:33 sys
drwxrwxrwt.   23 root root  4096 Oct   1 18:38 tmp
drwxr-xr-x.   12 root root   144 Oct   1 12:15 usr
drwxr-xr-x.   20 root root  4096 Oct   1 17:33 var
```

```
[siddharrth@sid /]$ ls -ltr
total 28
drwxr-xr-x.    2 root root     6 Jun 25 19:53 srv
lrwxrwxrwx.    1 root root     8 Jun 25 19:53 sbin -> usr/sbin
drwxr-xr-x.    2 root root     6 Jun 25 19:53 opt
drwxr-xr-x.    3 root root    18 Jun 25 19:53 mnt
drwxr-xr-x.    2 root root     6 Jun 25 19:53 media
lrwxrwxrwx.    1 root root     9 Jun 25 19:53 lib64 -> usr/lib64
lrwxrwxrwx.    1 root root     7 Jun 25 19:53 lib -> usr/lib
lrwxrwxrwx.    1 root root     7 Jun 25 19:53 bin -> usr/bin
dr-xr-xr-x.    2 root root     6 Jun 25 19:53 afs
drwxr-xr-x.   12 root root   144 Oct   1 12:15 usr
dr-xr-xr-x.  327 root root     0 Oct   1 17:33 proc
dr-xr-xr-x.   13 root root     0 Oct   1 17:33 sys
drwxr-xr-x.   20 root root  4096 Oct   1 17:33 var
dr-xr-xr-x.    5 root root  4096 Oct   1 17:33 boot
drwxr-xr-x.   20 root root  3440 Oct   1 17:34 dev
drwxr-xr-x.   47 root root  1240 Oct   1 17:34 run
drwxr-xr-x.   10 root root   115 Oct   1 18:36 home
drwxrwxrwt.   23 root root  4096 Oct   1 18:38 tmp
drwxr-xr-x.  133 root root  8192 Oct   1 18:43 etc
dr-xr-x---.   14 root root  4096 Oct   1 18:44 root
[siddharrth@sid /]$
```

7. Go to "etc" directory from your **home directory** and list down all the files using
   a. ls
   b. ls -la
   c. ls –ltr

```
[siddharrth@sid /]$ cd etc/
[siddharrth@sid etc]$ ls
accountsservice      cron.hourly          firewalld        issue.d          makedumpfile.conf.sample   pkcs11           selinux              tmpfiles.d
adjtime              cron.monthly         flatpak          issue.net        man_db.conf                pkgconfig        services             tpm2-tss
aliases              crontab              fonts            kdump            mcelog                     pki              sestatus.conf        trusted-key.key
alsa                 cron.weekly          foomatic         kdump.conf       microcode_ctl              plymouth         setroubleshoot       tuned
alternatives         crypto-policies      fprintd.conf     kernel           mime.types                 pm               sgml                 udev
anacrontab           crypttab             fstab            keys             mke2fs.conf                pnm2ppa.conf     shadow               udisks2
appstream.conf       csh.cshrc            fuse.conf        keyutils         modprobe.d                 polkit-1         shadow-              updatedb.conf
asound.conf          csh.login            fwupd            krb5.conf        modules-load.d             popt.d           shells               UPower
at.deny              cups                 gcrypt           krb5.conf.d      motd                       printcap         skel                 usb_modeswitch.conf
audit                cupshelpers          gdm              ld.so.cache      motd.d                     profile          smartmontools        vconsole.conf
authselect           dbus-1               geoclue          ld.so.conf       mtab                       profile.d        sos                  vimrc
avahi                dconf                glvnd            ld.so.conf.d     multipath                  protocols        speech-dispatcher    virc
bash_completion.d    debuginfod           gnupg            libaudit.conf    nanorc                     pulse            ssh                  vmware-tools
bashrc               default              GREP_COLORS      libblockdev      netconfig                  qemu-ga          ssl                  vulkan
bindresvport.blacklist depmod.d           groff            libibverbs.d     networks                   ras              sssd                 wgetrc
binfmt.d             dhcp                 group            libnl            NetworkManager             rc.d             statetab.d           wireplumber
bluetooth            DIR_COLORS           group-           libpaper.d       nftables                   rc.local         subgid               wpa_supplicant
brlapi.key           DIR_COLORS.lightbgcolor grub2.cfg     libreport        nsswitch.conf              redhat-release   subgid-              X11
brltty               dnf                  grub.d           libssh           nsswitch.conf.bak          request-key.conf subuid               xattr.conf
brltty.conf          dnsmasq.conf         gshadow          libuser.conf     nvme                       request-key.d    subuid-              xdg
centos-release       dnsmasq.d            gshadow-         locale.conf      openldap                   resolv.conf      sudo.conf            xml
chromium             dracut.conf          gss              localtime        opt                        rpc              sudoers              yum
chrony.conf          dracut.conf.d        host.conf        login.defs       os-release                 rpm              sudoers.d            yum.conf
chrony.keys          egl                  hostname         logrotate.conf   ostree                     rsyncd.conf      sudo-ldap.conf       yum.repos.d
cifs-utils           enscript.cfg         hosts            logrotate.d      PackageKit                 rsyslog.conf     sysconfig
cni                  environment          hp               lsm              pam.d                      rsyslog.d        sysctl.conf
cockpit              ethertypes           inittab          lvm              papersize                  rwtab.d          sysctl.d
containers           exports              inputrc          machine-id       passwd                     samba            systemd
cron.d               favicon.png          iproute2         machine-info     passwd-                    sane.d           system-release
cron.daily           filesystems          iscsi            magic            pbm2ppa.conf               sasl2            system-release-cpe
cron.deny            firefox              issue            mailcap          pinforc                    security         terminfo
[siddharrth@sid etc]$
```

```
[siddharrth@sid etc]$ ls -la
total 1332
drwxr-xr-x. 133 root   root      8192 Oct  1 18:43 .
dr-xr-xr-x.  18 root   root       235 Oct  1 12:15 ..
drwxr-xr-x.   3 root   root        28 Sep 30 12:50 accountsservice
-rw-r--r--.   1 root   root        16 Sep 30 12:55 adjtime
-rw-r--r--.   1 root   root      1529 Jun 23  2020 aliases
drwxr-xr-x.   3 root   root        65 Oct  1 12:18 alsa
drwxr-xr-x.   2 root   root      4096 Oct  1 12:15 alternatives
-rw-r--r--.   1 root   root       541 Nov 30  2023 anacrontab
-rw-r--r--.   1 root   root       833 Feb 11  2023 appstream.conf
-rw-r--r--.   1 root   root        55 Jun 17 18:22 asound.conf
-rw-r--r--.   1 root   root         1 Apr  4  2022 at.deny
drwxr-x---.   4 root   root       100 Oct  1 12:15 audit
drwxr-xr-x.   3 root   root      4096 Oct  1 12:19 authselect
drwxr-xr-x.   4 root   root        71 Oct  1 12:15 avahi
drwxr-xr-x.   2 root   root       124 Oct  1 12:18 bash_completion.d
-rw-r--r--.   1 root   root      2658 Feb  7  2024 bashrc
-rw-r--r--.   1 root   root       535 Jul 30 18:30 bindresvport.blacklist
drwxr-xr-x.   2 root   root         6 Sep 10 17:40 binfmt.d
drwxr-xr-x.   2 root   root        23 Sep 30 12:50 bluetooth
-rw-r-----.   1 root   brlapi      33 Sep 30 12:51 brlapi.key
drwxr-xr-x.   7 root   root        84 Sep 30 12:51 brltty
-rw-r--r--.   1 root   root     28974 Aug 10  2021 brltty.conf
-rw-r--r--.   1 root   root        24 Mar 20  2024 centos-release
drwxr-xr-x.   3 root   root        36 May 24  2023 chromium
-rw-r--r--.   1 root   root      1371 Sep 10 18:05 chrony.conf
-rw-r-----.   1 root   chrony     540 Sep 10 18:05 chrony.keys
drwxr-xr-x.   2 root   root        26 Jul 22 15:27 cifs-utils
drwxr-xr-x.   2 root   root         6 Sep 30 12:51 cni
drwxr-xr-x.   4 root   root        42 Sep 19 14:15 cockpit
drwxr-xr-x.   7 root   root       154 Oct  1 12:18 containers
drwxr-xr-x.   2 root   root        21 Oct  1 12:15 cron.d
drwxr-xr-x.   2 root   root         6 Aug 10  2021 cron.daily
-rw-r--r--.   1 root   root         0 Nov 30  2023 cron.deny
drwxr-xr-x.   2 root   root        22 Oct  1 12:15 cron.hourly
drwxr-xr-x.   2 root   root         6 Aug 10  2021 cron.monthly
```

```
[siddharrth@sid etc]$ ls -ltr
total 1316
-rw-r--r--.   1 root   root     67454 Apr 22  2020 mime.types
-rw-r--r--.   1 root   root       272 Apr 22  2020 mailcap
-rw-r--r--.   1 root   root       496 Jun  7  2020 logrotate.conf
-rw-r--r--.   1 root   root        44 Jun 23  2020 shells
-rw-r--r--.   1 root   root    692252 Jun 23  2020 services
-rw-r--r--.   1 root   root      6568 Jun 23  2020 protocols
-rw-r--r--.   1 root   root       233 Jun 23  2020 printcap
-rw-r--r--.   1 root   root        58 Jun 23  2020 networks
-rw-r--r--.   1 root   root         0 Jun 23  2020 motd
-rw-r--r--.   1 root   root       943 Jun 23  2020 inputrc
-rw-r--r--.   1 root   root       158 Jun 23  2020 hosts
-rw-r--r--.   1 root   root         9 Jun 23  2020 host.conf
-rw-r--r--.   1 root   root        66 Jun 23  2020 filesystems
-rw-r--r--.   1 root   root         0 Jun 23  2020 exports
-rw-r--r--.   1 root   root      1362 Jun 23  2020 ethertypes
-rw-r--r--.   1 root   root      1529 Jun 23  2020 aliases
-rw-r--r--.   1 root   root      2391 Mar  1  2021 libuser.conf
-rw-r--r--.   1 root   root      1634 Aug  2  2021 rpc
-rw-r--r--.   1 root   root        28 Aug  2  2021 ld.so.conf
-rw-r--r--.   1 root   root       817 Aug 10  2021 xattr.conf
-rw-r--r--.   1 root   root     28974 Aug 10  2021 brltty.conf
drwxr-xr-x.   2 root   root         6 Aug 10  2021 cron.weekly
-rw-r--r--.   1 root   root       451 Aug 10  2021 crontab
drwxr-xr-x.   2 root   root         6 Aug 10  2021 cron.monthly
drwxr-xr-x.   2 root   root         6 Aug 10  2021 cron.daily
-rw-r--r--.   1 root   root      4760 Aug 10  2021 enscript.cfg
-rw-r--r--.   1 root   root        94 Aug 10  2021 GREP_COLORS
-rw-r--r--.   1 root   root        68 Aug 10  2021 papersize
drwxr-xr-x.   2 root   root         6 Aug 10  2021 libpaper.d
-rw-r--r--.   1 root   root       624 Aug 10  2021 updatedb.conf
-rw-r--r--.   1 root   root      2872 Aug 10  2021 pinforc
-rw-r--r--.   1 root   root      1362 Aug 10  2021 pbm2ppa.conf
-rw-r--r--.   1 root   root      6300 Aug 10  2021 pnm2ppa.conf
drwxr-xr-x.   2 root   root         6 Aug 10  2021 popt.d
-rw-r--r--.   1 root   root      1523 Aug 10  2021 usb_modeswitch.conf
```

8. *Go to "etc/spool" from your **home directory** directory and list down all the files using
   a. ls
   b. ls -la
   c. ls –ltr

```
[siddharrth@sid var]$ cd spool/
[siddharrth@sid spool]$ ls
anacron    at    cron    cups    lpd    mail    plymouth
[siddharrth@sid spool]$ ls -la
total 4
drwxr-xr-x.   9 root root     94 Jun 25 19:53 .
drwxr-xr-x.  20 root root   4096 Oct   1 17:33 ..
drwxr-xr-x.   2 root root     63 Nov 30   2023 anacron
drwx------.   3 root root     31 Sep 30 12:51 at
drwx------.   2 root root      6 Nov 30   2023 cron
drwx--x---.   3 root lp       17 Aug 15 18:46 cups
drwxr-xr-x.   2 root root      6 Jun 25 19:53 lpd
drwxrwxr-x.   2 root mail    115 Oct   1 18:36 mail
drwxr-xr-x.   2 root root      6 Jul 15   2023 plymouth
[siddharrth@sid spool]$ ls -ltr
total 0
drwxr-xr-x. 2 root root      6 Jul 15   2023 plymouth
drwx------. 2 root root      6 Nov 30   2023 cron
drwxr-xr-x. 2 root root     63 Nov 30   2023 anacron
drwxr-xr-x. 2 root root      6 Jun 25 19:53 lpd
drwx--x---. 3 root lp       17 Aug 15 18:46 cups
drwx------. 3 root root     31 Sep 30 12:51 at
drwxrwxr-x. 2 root mail    115 Oct   1 18:36 mail
[siddharrth@sid spool]$
```
   d.

9. Go to "var" directory from your **home directory** and list down all the files using
   a. ls
   b. ls -la
   c. ls –ltr

```
[siddharrth@sid /]$ cd var
[siddharrth@sid var]$ ls
account  adm  cache  crash  db  empty  ftp  games  kerberos  lib  local  lock  log  mail  nis  opt  preserve  run  spool  tmp  yp
[siddharrth@sid var]$ ls -la
total 24
drwxr-xr-x. 20 root root 4096 Oct   1 17:33 .
dr-xr-xr-x. 18 root root  235 Oct   1 12:15 ..
drwxr-xr-x.  2 root root   19 Sep 30 12:51 account
drwxr-xr-x.  2 root root    6 Jun 25 19:53 adm
drwxr-xr-x. 17 root root 4096 Oct   1 12:18 cache
drwxr-xr-x.  2 root root    6 Aug  7 09:36 crash
drwxr-xr-x.  3 root root   18 Jun 25 19:53 db
drwxr-xr-x.  2 root root    6 Jun 25 19:53 empty
drwxr-xr-x.  2 root root    6 Jun 25 19:53 ftp
drwxr-xr-x.  2 root root    6 Jun 25 19:53 games
drwxr-xr-x.  3 root root   18 Jul  5 22:17 kerberos
drwxr-xr-x. 54 root root 4096 Jun 25 19:53 lib
drwxr-xr-x.  2 root root    6 Jun 25 19:53 local
lrwxrwxrwx.  1 root root   11 Sep 30 12:49 lock -> ../run/lock
drwxr-xr-x. 13 root root 4096 Oct   1 18:11 log
lrwxrwxrwx.  1 root root   10 Jun 25 19:53 mail -> spool/mail
drwxr-xr-x.  2 root root    6 Jun 25 19:53 nis
drwxr-xr-x.  2 root root    6 Jun 25 19:53 opt
drwxr-xr-x.  2 root root    6 Jun 25 19:53 preserve
lrwxrwxrwx.  1 root root    6 Sep 30 12:49 run -> ../run
drwxr-xr-x.  9 root root   94 Jun 25 19:53 spool
drwxrwxrwt. 15 root root 4096 Oct   1 18:52 tmp
-rw-r--r--.  1 root root  208 Oct   1 12:15 .updated
drwxr-xr-x.  2 root root    6 Jun 25 19:53 yp
[siddharrth@sid var]$
```

```
[siddharrth@sid var]$ ls -ltr
total 16
drwxr-xr-x.  2 root root    6 Jun 25 19:53 yp
drwxr-xr-x.  9 root root   94 Jun 25 19:53 spool
drwxr-xr-x.  2 root root    6 Jun 25 19:53 preserve
drwxr-xr-x.  2 root root    6 Jun 25 19:53 opt
drwxr-xr-x.  2 root root    6 Jun 25 19:53 nis
lrwxrwxrwx.  1 root root   10 Jun 25 19:53 mail -> spool/mail
drwxr-xr-x.  2 root root    6 Jun 25 19:53 local
drwxr-xr-x. 54 root root 4096 Jun 25 19:53 lib
drwxr-xr-x.  2 root root    6 Jun 25 19:53 games
drwxr-xr-x.  2 root root    6 Jun 25 19:53 ftp
drwxr-xr-x.  2 root root    6 Jun 25 19:53 empty
drwxr-xr-x.  3 root root   18 Jun 25 19:53 db
drwxr-xr-x.  2 root root    6 Jun 25 19:53 adm
drwxr-xr-x.  3 root root   18 Jul  5 22:17 kerberos
drwxr-xr-x.  2 root root    6 Aug  7 09:36 crash
lrwxrwxrwx.  1 root root    6 Sep 30 12:49 run -> ../run
lrwxrwxrwx.  1 root root   11 Sep 30 12:49 lock -> ../run/lock
drwxr-xr-x.  2 root root   19 Sep 30 12:51 account
drwxr-xr-x. 17 root root 4096 Oct  1 12:18 cache
drwxr-xr-x. 13 root root 4096 Oct  1 18:11 log
drwxrwxrwt. 15 root root 4096 Oct  1 18:52 tmp
[siddharrth@sid var]$
```

10. Go to "tmp" directory from your **home directory** and list down all the files using

    a.   ls

    b.   ls -la

    c.   ls –ltr

```
[siddharrth@sid /]$ cd tmp/
[siddharrth@sid tmp]$ ls
systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-chronyd.service-XPFj1e          systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-rtkit-daemon.service-fubnVW
systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-colord.service-24cgDe           systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-switcheroo-control.service-018mOo
systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-dbus-broker.service-hlDbKS      systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-systemd-logind.service-dZgAAM
systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-fwupd.service-kPqedz            systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-upower.service-vrwLTZ
systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-geoclue.service-JtcbJR          tmpaddon
systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-irqbalance.service-NMoFf9       vmware-root_846-2697139606
systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-kdump.service-T0NAOc            vmware-root_852-2689078282
systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-ModemManager.service-nWdrWl     vmware-root_854-2697532808
systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-power-profiles-daemon.service-BcJKpU  vmware-root_877-4022177778
[siddharrth@sid tmp]$ ls -la
total 592
drwxrwxrwt. 23 root       root        4096 Oct  1 18:52 .
dr-xr-xr-x. 18 root       root         235 Oct  1 12:15 ..
drwxrwxrwt.  2 root       root           6 Sep 30 12:57 .font-unix
drwxrwxrwt.  2 root       root          31 Oct  1 17:34 .ICE-unix
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-chronyd.service-XPFj1e
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-colord.service-24cgDe
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-dbus-broker.service-hlDbKS
drwx------.  3 root       root          17 Oct  1 17:34 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-fwupd.service-kPqedz
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-geoclue.service-JtcbJR
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-irqbalance.service-NMoFf9
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-kdump.service-T0NAOc
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-ModemManager.service-nWdrWl
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-power-profiles-daemon.service-BcJKpU
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-rtkit-daemon.service-fubnVW
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-switcheroo-control.service-018mOo
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-systemd-logind.service-dZgAAM
drwx------.  3 root       root          17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-upower.service-vrwLTZ
-rw-r--r--.  1 siddharrth siddharrth 583674 Oct  1 18:06 tmpaddon
drwx------.  2 root       root           6 Oct  1 17:33 vmware-root_846-2697139606
drwx------.  2 root       root           6 Oct  1 08:17 vmware-root_852-2689078282
drwx------.  2 root       root           6 Sep 30 13:01 vmware-root_854-2697532808
drwx------.  2 root       root           6 Sep 30 16:10 vmware-root_877-4022177778
-r--r--r--.  1 siddharrth siddharrth     11 Oct  1 17:34 .X0-lock
-r--r--r--.  1 gdm        gdm            11 Oct  1 17:33 .X1024-lock
-r--r--r--.  1 gdm        gdm            11 Oct  1 17:33 .X1025-lock
```

```
[siddharrth@sid tmp]$ ls -ltr
total 572
drwx------. 2 root       root            6 Sep 30 13:01 vmware-root_854-2697532808
drwx------. 2 root       root            6 Sep 30 16:10 vmware-root_877-4022177778
drwx------. 2 root       root            6 Oct  1 08:17 vmware-root_852-2689078282
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-dbus-broker.service-hlDbKS
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-chronyd.service-XPFj1e
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-irqbalance.service-NMoFf9
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-power-profiles-daemon.service-BcJKpU
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-rtkit-daemon.service-fubnVW
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-switcheroo-control.service-018mOo
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-systemd-logind.service-dZgAAM
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-upower.service-vrwLTZ
drwx------. 2 root       root            6 Oct  1 17:33 vmware-root_846-2697139606
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-ModemManager.service-nWdrWl
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-kdump.service-T0NAOc
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-geoclue.service-JtcbJR
drwx------. 3 root       root           17 Oct  1 17:33 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-colord.service-24cgDe
drwx------. 3 root       root           17 Oct  1 17:34 systemd-private-35c3808d95c140e28d861a6dcfa5dd0a-fwupd.service-kPqedz
-rw-r--r--. 1 siddharrth siddharrth 583674 Oct  1 18:06 tmpaddon
[siddharrth@sid tmp]$
```

11. Use **cd** cmd to navigate thru directories from your user directory.

```
[siddharrth@sid tmp]$ cd
[siddharrth@sid ~]$ cd
[siddharrth@sid ~]$ pws
bash: pws: command not found...
[siddharrth@sid ~]$ pwd
/home/siddharrth
[siddharrth@sid ~]$
[siddharrth@sid ~]$ ls
Desktop  Documents  Downloads  linux  Music  Pictures  Public  Templates  Videos
[siddharrth@sid ~]$ cd linux
[siddharrth@sid linux]$ ls
english  History  maths  science  Social
[siddharrth@sid linux]$ mkdir sample1
[siddharrth@sid linux]$ cd sample1/
[siddharrth@sid sample1]$
```

12. Use pwd, **hostname** and **whoami** cmd under your home directory.

```
[siddharrth@sid sample1]$ pwd
/home/siddharrth/linux/sample1
[siddharrth@sid sample1]$ hostname
sid
[siddharrth@sid sample1]$ whoami
siddharrth
[siddharrth@sid sample1]$
```

13. Change user using **su – username** cmd
    a. From root → go to einstein → laura →Kevin →Adrian→yourhome

```
[root@adrian ~]#
[root@adrian ~]# su - einstein
[einstein@adrian ~]$ su - laura
Password:
[laura@adrian ~]$ su - kevin
Password:
[kevin@adrian ~]$ su - adrian
Password:
[adrian@adrian ~]$ su - siddharrth
Password:
[siddharrth@adrian ~]$ █
```

14. Use **exit** cmd and observe the changes.

```
[siddharrth@adrian ~]$ exit
logout
[adrian@adrian ~]$ exit
logout
[kevin@adrian ~]$ exit
logout
[laura@adrian ~]$ exit
logout
[einstein@adrian ~]$ exit
logout
[root@adrian ~]# exit
exit
[adrain@adrian ~]$ exit
logout
[root@adrian home]# exit
exit
[siddharrth@adrian home]$ █
```

15. For each cmd you used in this exercise, use the help cmds
    a. **whatis** cmdname

```
[siddharrth@adrian ~]$ whatis useradd
useradd (8)            - create a new user or update default new user information
[siddharrth@adrian ~]$ whatis passwd
passwd (5)             - password file
passwd (1ossl)         - OpenSSL application commands
passwd (1)             - update user's authentication tokens
[siddharrth@adrian ~]$ whatis touch
touch (1)              - change file timestamps
touch (1p)             - change file access and modification times
[siddharrth@adrian ~]$ whatis ls
ls (1)                 - list directory contents
ls (1p)                - list directory contents
[siddharrth@adrian ~]$ whatis ls -la
Usage: whatis [OPTION...] KEYWORD...
Try 'whatis --help' or 'whatis --usage' for more information.
[siddharrth@adrian ~]$ whatis cd
cd (1)                 - bash built-in commands, see bash(1)
cd (1p)                - change the working directory
[siddharrth@adrian ~]$ whatis pwd
pwd (1)                - print name of current/working directory
pwd (1p)               - return working directory name
[siddharrth@adrian ~]$ whatis hostname
hostname (7)           - hostname resolution description
hostname (5)           - Local hostname configuration file
hostname (1)           - show or set the system's host name
[siddharrth@adrian ~]$ whatis whoami
whoami (1)             - print effective userid
[siddharrth@adrian ~]$ whatis su
su (1)                 - run a command with substitute user and group ID
[siddharrth@adrian ~]$ whatis exit
exit (3)               - cause normal process termination
exit (1)               - bash built-in commands, see bash(1)
exit (1p)              - cause the shell to exit
exit (2)               - terminate the calling process
exit (3p)              - terminate a process
[siddharrth@adrian ~]$ whatis whatis
whatis (1)             - display one-line manual page descriptions
[siddharrth@adrian ~]$
```

b.   cmdname --help

```
[siddharrth@adrian ~]$ useradd --help
Usage: useradd [options] LOGIN
       useradd -D
       useradd -D [options]

Options:
      --badname                 do not check for bad names
  -b, --base-dir BASE_DIR       base directory for the home directory of the
                                new account
      --btrfs-subvolume-home    use BTRFS subvolume for home directory
  -c, --comment COMMENT         GECOS field of the new account
  -d, --home-dir HOME_DIR       home directory of the new account
  -D, --defaults                print or change default useradd configuration
  -e, --expiredate EXPIRE_DATE  expiration date of the new account
  -f, --inactive INACTIVE       password inactivity period of the new account
  -g, --gid GROUP               name or ID of the primary group of the new
                                account
  -G, --groups GROUPS           list of supplementary groups of the new
                                account
```

```
[siddharrth@adrian ~]$ passwd --help
Usage: passwd [OPTION...] <accountName>
  -k, --keep-tokens       keep non-expired authentication tokens
  -d, --delete            delete the password for the named account (root only); also removes password lock if any
  -l, --lock              lock the password for the named account (root only)
  -u, --unlock            unlock the password for the named account (root only)
  -e, --expire            expire the password for the named account (root only)
  -f, --force             force operation
  -x, --maximum=DAYS      maximum password lifetime (root only)
  -n, --minimum=DAYS      minimum password lifetime (root only)
  -w, --warning=DAYS      number of days warning users receives before password expiration (root only)
  -i, --inactive=DAYS     number of days after password expiration when an account becomes disabled (root only)
  -S, --status            report password status on the named account (root only)
      --stdin             read new tokens from stdin (root only)
```

c. man cmdname

```
USERADD(8)                                    System Management Commands                                    USERADD

NAME
       useradd - create a new user or update default new user information

SYNOPSIS
       useradd [options] LOGIN

       useradd -D

       useradd -D [options]

DESCRIPTION
       When invoked without the -D option, the useradd command creates a new user account using the values specified on the command line plus the default values f
       the system. Depending on command line options, the useradd command will update system files and may also create the new user's home directory and copy init
       files.

       By default, a group will also be created for the new user (see -g, -N, -U, and USERGROUPS_ENAB).

OPTIONS
       The options which apply to the useradd command are:

       --badname
           Allow names that do not conform to standards.

       -b, --base-dir BASE_DIR
           The default base directory for the system if -d HOME_DIR is not specified.  BASE_DIR is concatenated with the account name to define the home directory
           If the -m option is not used, BASE_DIR must exist.

           If this option is not specified, useradd will use the base directory specified by the HOME variable in /etc/default/useradd, or /home by default.

       -c, --comment COMMENT
           Any text string. It is generally a short description of the login, and is currently used as the field for the user's full name.

       -d, --home-dir HOME_DIR
           The new user will be created using HOME_DIR as the value for the user's login directory. The default is to append the LOGIN name to BASE_DIR and use th
 Manual page useradd(8) line 1 (press h for help or q to quit)
```

```
PASSWD(1)                                         User utilities                                              PA

NAME
       passwd - update user's authentication tokens

SYNOPSIS
       passwd [-k] [-l] [-u [-f]] [-d] [-e] [-n mindays] [-x maxdays] [-w warndays] [-i inactivedays] [-S] [--stdin] [-?] [--usage] [username]

DESCRIPTION
       The passwd utility is used to update user's authentication token(s).

       This  task  is  achieved through calls to the Linux-PAM and Libuser API.  Essentially, it initializes itself as a "passwd" service with Linux-PAM and u
       configured password modules to authenticate and then update a user's password.

       A simple entry in the global Linux-PAM configuration file for this service would be:

        #
        # passwd service entry that does strength checking of
        # a proposed password before updating it.
        #
        passwd password requisite pam_cracklib.so retry=3
        passwd password required pam_unix.so use_authtok
        #

       Note, other module types are not required for this application to function correctly.

OPTIONS
       -k, --keep-tokens
             The option -k is used to indicate that the update should only be for expired authentication tokens (passwords); the user wishes to keep  their
             pired tokens as before.

       -l, --lock
             This  option  is  used  to lock the password of specified account and it is available to root only. The locking is performed by rendering the en
             password into an invalid string (by prefixing the encrypted string with an !). Note that the account is not fully locked - the user can still lo
             other means of authentication such as the ssh public key authentication. Use chage -E 0 user command instead for full account locking.
 Manual page passwd(1) line 1 (press h for help or q to quit)
```
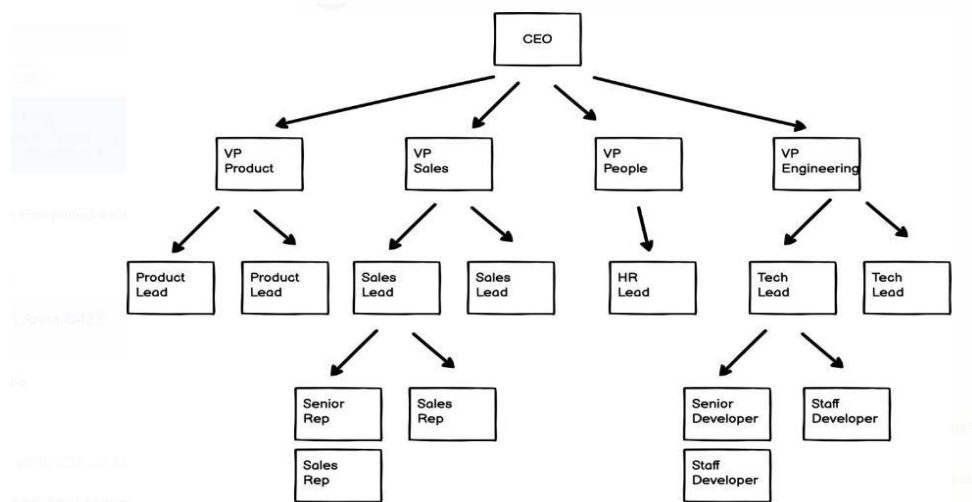
16. Create directories under your home directory (your username),use **cd** cmd to navigate thru them

```
[siddharrth@adrian ~]$ mkdir CEO
[siddharrth@adrian ~]$ ls
CEO  Desktop  Documents  Downloads  linux  Music  Pictures  Public  Templates  Videos
[siddharrth@adrian ~]$ cd CEO/
[siddharrth@adrian CEO]$ ls
[siddharrth@adrian CEO]$ mkdir VP_Product VP_Sales VP_People VP_Engineering
[siddharrth@adrian CEO]$ ls
VP_Engineering  VP_People  VP_Product  VP_Sales
[siddharrth@adrian CEO]$ cd VP_Product/
[siddharrth@adrian VP_Product]$ mkdir Product_lead1 Product_lead2
[siddharrth@adrian VP_Product]$ ls
Product_lead1  Product_lead2
[siddharrth@adrian VP_Product]$ cd ..
[siddharrth@adrian CEO]$ cd VP_Sales/
[siddharrth@adrian VP_Sales]$ mkdir -p Sale_lead1/Senior_Rep/Sales_Rep
[siddharrth@adrian VP_Sales]$ ls
Sale_lead1
[siddharrth@adrian VP_Sales]$ cd Sale_lead1/
[siddharrth@adrian Sale_lead1]$ mkdir Sales_Rep
[siddharrth@adrian Sale_lead1]$ ls
Sales_Rep  Senior_Rep
[siddharrth@adrian Sale_lead1]$ cd ..
[siddharrth@adrian VP_Sales]$ cd ..
[siddharrth@adrian CEO]$ cd VP_People/
[siddharrth@adrian VP_People]$ mkdir HR_Lead
[siddharrth@adrian VP_People]$ ls
HR_Lead
[siddharrth@adrian VP_People]$ cd ..
[siddharrth@adrian CEO]$ cd VP_Engineering/
[siddharrth@adrian VP_Engineering]$ mkdir -p Tech_Lead/Senior_developer/Staff_Developer
[siddharrth@adrian VP_Engineering]$ mkdir Tech_Lead1
[siddharrth@adrian VP_Engineering]$ ls
Tech_Lead  Tech_Lead1
[siddharrth@adrian VP_Engineering]$
```