```
Data management Practical Session in REDHAT Linux
[root@localhost ~]# pwd
/root
[root@localhost ~]# ls
anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]# ls /root
anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]# ls ~
anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]# ls /
afs boot etc lib media opt
                                    root sbin sys usr
bin dev home lib64 mnt
                              proc run
                                         srv
                                                tmp
[root@localhost ~]#
[root@localhost ~]# ls /root
anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# su - student
[student@localhost ~]$ pwd
/home/student
[student@localhost ~]$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
[student@localhost ~]$
[student@localhost ~]$ ls /
afs boot etc lib medi
bin dev home lib64 mnt
                       media opt
                                    root sbin sys usr
                              proc run
                                          srv
[student@localhost ~]$
[student@localhost ~]$ ls /root
ls: cannot open directory '/root': Permission denied
[student@localhost ~]$
[student@localhost ~]$ ls /home
soniya student vinit
[student@localhost ~]$
[student@localhost ~]$ ls /home/student
Desktop Documents Downloads Music Pictures Public Templates Videos
[student@localhost ~]$
[student@localhost ~]$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
[student@localhost ~]$
[student@localhost ~]$ ls /home/soniya
ls: cannot open directory '/home/soniya': Permission denied
[student@localhost ~]$
[student@localhost ~]$ ls /
afs boot etc lib
                       media opt root sbin sys usr
bin dev home lib64 mnt
                              proc run
                                         srv
[student@localhost ~]$
[student@localhost ~]$ exit
logout
[root@localhost ~]#
_____
[root@localhost ~]# pwd
[root@localhost ~]# ls
anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]# ls ~
anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]# ls /root
anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# ls /
afs bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
```

```
[root@localhost ~]#
[root@localhost ~]# ls /root
anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]# ls /root
anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]# ls /home
soniya student vinit
[root@localhost ~]#
[root@localhost ~]# ls /
afs bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch abc
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch /abc
[root@localhost ~]#
[root@localhost ~]# touch
                           /tmp/abc
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# ls
abc anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# ls /
abc afs bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
[root@localhost ~]#
[root@localhost ~]# ls /tmp
abc
[root@localhost ~]# touch abc1 abc2 abc3
[root@localhost ~]#
[root@localhost ~]# ls
abc abc1 abc2 abc3 anaconda-ks.cfg Desktop Documents Downloads Music Pictures Public Templates Videos
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch abc4 /xyz
                                     /tmp/xyz
[root@localhost ~]#
[root@localhost ~]# ls
abc abc2 abc4
                           Desktop
                                      Downloads Pictures Templates
abc1 abc3 anaconda-ks.cfg Documents Music
                                                Public
[root@localhost ~]#
[root@localhost ~]# ls /
abc bin dev home lib64 mnt proc
                                     run
                                            srv
                                                tmp
afs boot etc lib
                    media opt root sbin sys usr
[root@localhost ~]#
[root@localhost ~]# ls /tmp
[root@localhost ~]# touch xyz1
[root@localhost ~]#
[root@localhost ~]# touch /root/xyz2
[root@localhost ~]#
[root@localhost ~]# touch ~/xyz3
[root@localhost ~]#
[root@localhost ~]# ls
                                      Downloads Pictures Templates xyz1 xyz3
    abc2 abc4
                           Desktop
ahc
abc1 abc3 anaconda-ks.cfg Documents Music
                                                Public
                                                          Videos
                                                                     xvz2
[root@localhost ~]#
[root@localhost ~]# touch xyz4 /root/xyz5 ~/xyz6 /linux
[root@localhost ~]#
[root@localhost ~]# ls
    abc2 abc4
                           Desktop
                                      Downloads Pictures Templates xyz1 xyz3 xyz5
abc
                                                                    xyz2 xyz4 xyz6
abc1 abc3 anaconda-ks.cfg Documents Music
                                                Public
                                                          Videos
[root@localhost ~]#
[root@localhost ~]# ls
abc bin dev home lib64 media opt
                                        root sbin sys
                                                        usr
afs boot etc lib
                    linux mnt
                                  proc run
                                             srv
                                                   tmp
                                                        var
[root@localhost ~]#
```

```
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch tcs{1,2,3,4,5}
[root@localhost ~]#
[root@localhost ~]# ls
                                        Downloads
                                                                                    Videos xyz2 xyz4 xyz6
     abc2 abc4
                             Deskton
                                                   Pictures tcs1 tcs3 tcs5
ahc
abc1 abc3 anaconda-ks.cfg Documents
                                                   Public
                                                             tcs2 tcs4
                                                                         Templates
                                       Music
                                                                                    xyz1
                                                                                             xyz3
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch ibm{1..5}
[root@localhost ~]#
[root@localhost ~]# ls
abc
     abc3
                       Desktop
                                  ibm1
                                        ibm4
                                               Pictures tcs2
                                                               tcs5
                                                                          xyz1
abc1 abc4
                       Documents
                                 ibm2
                                       ibm5
                                               Public
                                                         tcs3
                                                               Templates
                                                                          xyz2
                                                                                xyz5
     anaconda-ks.cfg Downloads
                                 ibm3 Music
                                               tcs1
                                                         tcs4
                                                               Videos
                                                                          xyz3
                                                                                xyz6
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch {rajat,sumit}
[root@localhost ~]#
[root@localhost ~]# ls
abc
     abc3
                       Desktop
                                  ibm1
                                       ibm4
                                               Pictures sumit tcs3
                                                                     Templates
                                                                                 xyz2
                       Documents
                                  ibm2
                                       ibm5
abc1 abc4
                                               Public
                                                         tcs1
                                                                tcs4
                                                                      Videos
                                                                                 xyz3
                                                                                       xyz6
     anaconda-ks.cfg Downloads
                                        Music
                                               rajat
                                  ibm3
                                                         tcs2
                                                                tcs5
                                                                      xyz1
                                                                                 xyz4
[root@localhost ~]#
[root@localhost ~]# touch rajat1 sumit1
[root@localhost ~]#
[root@localhost ~]# ls
abc
     abc3
                       Desktop
                                  ibm1
                                        ibm4
                                               Pictures
                                                         rajat1 tcs1
                                                                       tcs4
                                                                                  Videos
                                                                                          xyz3
                                                                                                xvz6
abc1 abc4
                       Documents
                                  ibm2
                                        ibm5
                                               Public
                                                         sumit
                                                                 tcs2
                                                                       tcs5
                                                                                  xyz1
                                                                                           xyz4
                                                         sumit1 tcs3 Templates
abc2 anaconda-ks.cfg Downloads
                                        Music
                                 ihm3
                                               rajat
                                                                                  xyz2
                                                                                          xyz5
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch rajeev.txt
[root@localhost ~]#
[root@localhost ~]# ls
abc
     abc3
                       Desktop
                                  ibm1 ibm4
                                               Pictures rajat1
                                                                     sumit1 tcs3 Templates xyz2 xyz5
abc1 abc4
                       Documents
                                  ibm2
                                       ibm5
                                               Public
                                                         rajeev.txt
                                                                    tcs1
                                                                             tcs4
                                                                                  Videos
                                                                                               xyz3
                                                                                                     xyz6
                                                                                   xyz1
                                                                                               xyz4
abc2 anaconda-ks.cfg Downloads
                                 ibm3
                                       Music
                                               rajat
                                                                     tcs2
                                                                             tcs5
                                                         sumit
[root@localhost ~]#
[root@localhost ~]# touch rajeev{1..5}.txt
[root@localhost ~]#
[root@localhost ~]# ls
     abc4
                       Downloads
                                 ibm4
                                            Public
                                                         rajeev2.txt rajeev.txt tcs2
                                                                                        Templates xyz3
abc
                      ibm1
abc1
     anaconda-ks.cfg
                                  ibm5
                                            rajat
                                                         rajeev3.txt
                                                                      sumit
                                                                                  tcs3
                                                                                        Videos
                                                                                                    xyz4
abc2
     Desktop
                       ibm2
                                  Music
                                            rajat1
                                                         rajeev4.txt
                                                                      sumit1
                                                                                  tcs4
                                                                                        xyz1
                                                                                                    xyz5
abc3 Documents
                       ibm3
                                  Pictures rajeev1.txt rajeev5.txt tcs1
                                                                                  tcs5
                                                                                        xyz2
                                                                                                    xyz6
[root@localhost ~]#
[root@localhost ~]# touch gopesh{1..5}.py
[root@localhost ~]#
[root@localhost ~]# ls
abc
     anaconda-ks.cfg gopesh2.py
                                   ibm2
                                          Pictures
                                                       rajeev2.txt
                                                                   sumit
                                                                            tcs4
                                                                                       xyz2
abc1 Desktop
                                   ibm3
                                          Public
                                                       rajeev3.txt
                                                                    sumit1
                                                                            tcs5
                                                                                       xyz3
                       gopesh3.py
abc2 Documents
                       gopesh4.py
                                   ibm4
                                          rajat
                                                       rajeev4.txt
                                                                            Templates
                                                                                       xyz4
                                                                    tcs1
abc3 Downloads
                       gopesh5.py
                                   ibm5
                                          rajat1
                                                       rajeev5.txt tcs2
                                                                            Videos
                                                                                       xyz5
abc4 gopesh1.py
                       ibm1
                                   Music rajeev1.txt rajeev.txt
                                                                    tcs3
                                                                            xyz1
                                                                                       xyz6
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch hcl{0..10..2}
[root@localhost ~]#
[root@localhost ~]# ls
abc
     anaconda-ks.cfg
                      gopesh2.py hcl10
                                          ibm1 Music
                                                          rajeev1.txt rajeev.txt tcs3
                                                                                               xyz1
                                                                                                    xyz6
abc1 Desktop
                                                Pictures
                                                                                   tcs4
                       gopesh3.py
                                   hc12
                                          ibm2
                                                          rajeev2.txt
                                                                       sumit
                                                                                               xyz2
abc2 Documents
                       gopesh4.py
                                   hc14
                                          ibm3
                                                Public
                                                          rajeev3.txt
                                                                       sumit1
                                                                                   tcs5
                                                                                               xyz3
                       gopesh5.py
abc3 Downloads
                                   hcl6
                                          ibm4
                                                rajat
                                                          rajeev4.txt tcs1
                                                                                   Templates
                                                                                               xyz4
abc4 gopesh1.py
                                   hc18
                                                                                   Videos
                       hcl0
                                          ibm5
                                               rajat1
                                                          rajeev5.txt tcs2
                                                                                               xyz5
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch tech{1..10..2}
[root@localhost ~]#
[root@localhost ~]# ls
abc
      anaconda-ks.cfg gopesh2.py
                                   hcl10
                                          ibm1
                                                Music
                                                          rajeev1.txt
                                                                       rajeev.txt tcs3
                                                                                          tech5
                                                                                                      xyz1
                                                                                                           xyz6
abc1
     Desktop
                       gopesh3.py
                                   hc12
                                          ibm2
                                                Pictures
                                                          rajeev2.txt
                                                                       sumit
                                                                                   tcs4
                                                                                          tech7
                                                                                                      xyz2
abc2 Documents
                                                Public
                       gopesh4.py
                                   hc14
                                          ibm3
                                                          raieev3.txt
                                                                       sumit1
                                                                                   tcs5
                                                                                          tech9
                                                                                                      xyz3
abc3 Downloads
                                   hcl6
                       gopesh5.py
                                          ibm4
                                                rajat
                                                          rajeev4.txt tcs1
                                                                                   tech1
                                                                                          Templates
                                                                                                     xyz4
```

```
abc4 gopesh1.py
                                    hcl0
                                                       hcl8 ibm5 rajat1
                                                                                            rajeev5.txt tcs2
                                                                                                                                 tech3 Videos
                                                                                                                                                                  xyz5
[root@localhost ~]#
[root@localhost ~]# touch kapil
[root@localhost ~]#
[root@localhost ~]# touch /tmp/kapil
[root@localhost ~]#
[root@localhost ~]# ls
                                                                                                                 rajeev5.txt tcs2
         anaconda-ks.cfg gopesh2.py hcl10 ibm1 kapil
                                                                                             rajat1
                                                                                                                                                 tech3
                                                                                                                                                                   Videos
abc1 Desktop
                                                                                             rajeev1.txt rajeev.txt tcs3
                                    gopesh3.py hcl2
                                                                   ibm2 Music
                                                                                                                                                 tech5
                                                                                                                                                                   xyz1
                                    gopesh4.py hcl4
                                                                 ibm3 Pictures rajeev2.txt sumit
abc2 Documents
                                                                                                                                      tcs4
                                                                                                                                                  tech7
                                                                                                                                                                   xvz2
                                                                                             rajeev3.txt sumit1
abc3 Downloads
                                     gopesh5.py hcl6 ibm4 Public
                                                                                                                                     tcs5
                                                                                                                                                  tech9
                                                                                                                                                                   xyz3
abc4 gopesh1.py
                                                       hcl8 ibm5 rajat
                                                                                                                                      tech1 Templates xyz4
                                    hcl0
                                                                                            rajeev4.txt tcs1
[root@localhost ~]#
[root@localhost ~]# ls /tmp
ahc
dbus-qdu0ohykez
kapil
systemd-private-bf2ef57264b344ac823260c31253b8c6-bluetooth.service-u2ecb2
systemd-private-bf2ef57264b344ac823260c31253b8c6-chronyd.service-EqTUwN
systemd-private-bf2ef57264b344ac823260c31253b8c6-colord.service-IuJM8s
systemd-private-bf2ef57264b344ac823260c31253b8c6-dbus-broker.service-04f9r0
systemd-private-bf2ef57264b344ac823260c31253b8c6-fwupd.service-ZW1qIV
systemd-private-bf2ef57264b344ac823260c31253b8c6-ModemManager.service-MjjLGw
systemd-private-bf2ef57264b344ac823260c31253b8c6-power-profiles-daemon.service-qdMR5X
systemd-private-bf2ef57264b344ac823260c31253b8c6-rtkit-daemon.service-vZk4Jf
systemd-private-bf2ef57264b344ac823260c31253b8c6-switcheroo-control.service-QPVrqa
systemd-private-bf2ef57264b344ac823260c31253b8c6-systemd-logind.service-3HsxQT
systemd-private-bf2ef57264b344ac823260c31253b8c6-upower.service-hqwcpt
vmware-root 895-3979642976
vmware-root 913-4013723377
XVZ
[root@localhost ~]# useradd rajat
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# su - rajat
[rajat@localhost ~]$
[rajat@localhost ~]$ pwd
/home/rajat
[rajat@localhost ~]$ ls
[rajat@localhost ~]$
[rajat@localhost ~]$ ls ~
[rajat@localhost ~]$
[rajat@localhost ~]$ ls /home/rajat
[rajat@localhost ~]$
[rajat@localhost ~]$ ls /root
ls: cannot open directory '/root': Permission denied
[rajat@localhost ~]$
[rajat@localhost ~]$ ls /home
rajat soniya student vinit
[rajat@localhost ~]$
[rajat@localhost ~]$ ls /home/student
ls: cannot open directory '/home/student': Permission denied
[rajat@localhost ~]$
[rajat@localhost ~]$ ls /
abc bin dev home lib64 media opt
                                                                   root sbin sys usr
                                                                                                      xyz
afs boot etc lib
                                   linux mnt
                                                         proc run
                                                                            srv
[rajat@localhost ~]$
[rajat@localhost ~]$ ls /tmp
abc
dbus-qdu0ohykez
kapil
systemd-private-bf2ef57264b344ac823260c31253b8c6-bluetooth.service-u2ecb2
systemd-private-bf2ef57264b344ac823260c31253b8c6-chronyd.service-EqTUwN
systemd-private-bf2ef57264b344ac823260c31253b8c6-colord.service-IuJM8s
systemd-private-bf2ef57264b344ac823260c31253b8c6-dbus-broker.service-04f9r0
systemd-private-bf2ef57264b344ac823260c31253b8c6-fwupd.service-ZW1qIV
systemd-private-bf2ef57264b344ac823260c31253b8c6-ModemManager.service-MjjLGw
system d-private-bf2ef57264b344ac823260c31253b8c6-power-profiles-daemon.service-qdMR5Xaccolors and the state of the stat
systemd-private-bf2ef57264b344ac823260c31253b8c6-rtkit-daemon.service-vZk4Jf
systemd-private-bf2ef57264b344ac823260c31253b8c6-switcheroo-control.service-QPVrqa
systemd-private-bf2ef57264b344ac823260c31253b8c6-systemd-logind.service-3HsxQT
```

xyz5

xyz6

systemd-private-bf2ef57264b344ac823260c31253b8c6-upower.service-hqwcpt

```
vmware-root_895-3979642976
vmware-root 913-4013723377
[rajat@localhost ~]$
[rajat@localhost ~]$
[rajat@localhost ~]$ pwd
/home/rajat
[rajat@localhost ~]$ touch myfile1
[rajat@localhost ~]$
[rajat@localhost ~]$ ls
mvfile1
[rajat@localhost ~]$ touch /tmp/myfile2
[rajat@localhost ~]$
[rajat@localhost ~]$ ls /tmp
dbus-qdu0ohykez
kapil
myfile2
systemd-private-bf2ef57264b344ac823260c31253b8c6-bluetooth.service-u2ecb2
systemd-private-bf2ef57264b344ac823260c31253b8c6-chronyd.service-EqTUwN
systemd-private-bf2ef57264b344ac823260c31253b8c6-colord.service-IuJM8s
systemd-private-bf2ef57264b344ac823260c31253b8c6-dbus-broker.service-04f9r0
systemd-private-bf2ef57264b344ac823260c31253b8c6-fwupd.service-ZW1qIV
systemd-private-bf2ef57264b344ac823260c31253b8c6-ModemManager.service-MjjLGw
systemd-private-bf2ef57264b344ac823260c31253b8c6-power-profiles-daemon.service-qdMR5X
systemd-private-bf2ef57264b344ac823260c31253b8c6-rtkit-daemon.service-vZk4Jf
systemd-private-bf2ef57264b344ac823260c31253b8c6-switcheroo-control.service-QPVrqa
systemd-private-bf2ef57264b344ac823260c31253b8c6-systemd-logind.service-3HsxQT
systemd-private-bf2ef57264b344ac823260c31253b8c6-upower.service-hqwcpt
vmware-root 895-3979642976
vmware-root 913-4013723377
xyz
[rajat@localhost ~]$
[rajat@localhost ~]$
[rajat@localhost ~]$ touch /root/myfile3
touch: cannot touch '/root/myfile3': Permission denied
[rajat@localhost ~]$
[rajat@localhost ~]$ touch /myfile3
touch: cannot touch '/myfile3': Permission denied
[rajat@localhost ~]$
[rajat@localhost ~] \$ \ exit
logout
[root@localhost ~]#
_____
Examples of only touch and ls command and pwd command?
______
Examples of mkdir and cd and ls command
______
[root@localhost ~]# mkdir data
[root@localhost ~]#
[root@localhost \sim] # ls
abc anaconda-ks.cfg gopesh1.py hcl0 hcl8 ibm5
abc1 data gopesh2.py hcl10 ibm1 kapi
                                                                   rajeev4.txt tcs1 tech1 Templates
rajeev5.txt tcs2 tech3 Videos
                                                       rajat
                                                                                                       xyz4
                      gopesh2.py hcl10 ibm1 kapil
                                                       rajat1
                                                                                                       xyz5
                      gopesh3.py hcl2 ibm2 Music
abc2 Desktop
                                                       rajeev1.txt rajeev.txt tcs3 tech5 xyz1
                                                                                                       xyz6
                     gopesh4.py hcl4 ibm3 Pictures rajeev2.txt sumit
abc3 Documents
                                                                              tcs4 tech7 xyz2
abc4 Downloads
                      gopesh5.py hcl6 ibm4 Public
                                                                                tcs5 tech9 xyz3
                                                       rajeev3.txt sumit1
[root@localhost ~]#
[root@localhost ~]# mkdir /data
[root@localhost ~]#
[root@localhost ~]# ls /
abc bin data etc lib
                            linux mnt proc run srv tmp
                                                             var
afs boot dev home lib64 media opt root sbin sys usr
[root@localhost ~]#
[root@localhost ~]# mkdir /data/mydir
[root@localhost ~]# touch /data/abc
[root@localhost ~]#
[root@localhost ~]# ls /data
abc mydir
[root@localhost ~]#
```

```
[root@localhost ~]# mkdir data/mydir
[root@localhost ~]# touch data/abc1
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# ls /data
abc mydir
[root@localhost ~]# ls /root/data
abc1 mydir
[root@localhost ~]#
[root@localhost ~]# touch abc10
[root@localhost ~]# touch ~/abc11
[root@localhost ~]# touch /abc12
[root@localhost ~]#
[root@localhost ~]# touch /root/abc13
[root@localhost ~]#
[root@localhost ~]# ls
abc
       abc3
                        Downloads
                                    hcl0
                                           ibm1
                                                  Music
                                                               rajeev2.txt sumit1 tech1
                                                                                               Videos xyz6
abc1
       abc4
                        gopesh1.py hcl10 ibm2
                                                  Pictures
                                                               rajeev3.txt tcs1
                                                                                    tech3
                                                                                               xyz1
abc10
      anaconda-ks.cfg
                        gopesh2.py hcl2
                                           ibm3
                                                  Public
                                                               rajeev4.txt tcs2
                                                                                    tech5
                                                                                               xyz2
abc11 data
                        gopesh3.py
                                    hc14
                                           ibm4
                                                               rajeev5.txt
                                                                            tcs3
                                                                                    tech7
                                                  rajat
                                                                                               xyz3
abc13 Desktop
                        gopesh4.py hcl6
                                           ibm5
                                                  rajat1
                                                               rajeev.txt
                                                                            tcs4
                                                                                    tech9
                                                                                               xyz4
abc2
      Documents
                        gopesh5.py hc18
                                           kapil rajeev1.txt sumit
                                                                            tcs5
                                                                                    Templates
                                                                                               xyz5
[root@localhost ~]#
[root@localhost ~]# ls /
abc afs boot dev home lib64 media opt abc12 bin data etc lib linux mnt proc
                                                 root sbin sys usr
                                                                       XVZ
                                           proc run
                                                       srv
                                                             tmp
[root@localhost ~]#
[root@localhost ~]# pwd
/root
[root@localhost ~]# cd /
[root@localhost /]# ls
      afs boot dev home lib64 media opt
ahc
                                                 root
                                                      shin
                                                             SVS
                                                                  usr
abc12 bin data etc lib
                             linux mnt
                                           proc
                                                 run
[root@localhost /]#
[root@localhost /]# cd
[root@localhost ~]#
[root@localhost ~]# cd /home
[root@localhost home]#
[root@localhost home]# pwd
/home
[root@localhost home]# cd
[root@localhost ~]#
[root@localhost ~]# cd /home
[root@localhost home]#
[root@localhost home]# cd
[root@localhost ~]#
[root@localhost ~]# cd /home
[root@localhost home]#
[root@localhost home]# cd ~
[root@localhost ~]#
[root@localhost ~]# cd /home
[root@localhost home]#
[root@localhost home]# cd /root
[root@localhost ~]#
[root@localhost ~]# pwd
/root
[root@localhost ~]# cd /
[root@localhost /]# ls
      afs boot dev home lib64 media opt
ahc
                                                 root sbin sys usr
abc12 bin data etc lib
                             linux mnt
                                           proc run
                                                       srv
                                                             tmp
[root@localhost /]# cd
[root@localhost ~]#
[root@localhost ~]# cd ..
[root@localhost /]#
[root@localhost /]# ls
       afs boot dev home lib64 media opt
                                                 root sbin sys usr
```

```
abc12 bin data etc lib linux mnt
                                           proc run
                                                       srv
                                                             tmp var
[root@localhost /]# cd
[root@localhost ~]#
[root@localhost ~]# ls /data
abc mydir
[root@localhost ~]#
[root@localhost ~]# ls /data/mydir
[root@localhost ~]#
[root@localhost ~]# cd /data
[root@localhost data]#
[root@localhost data]# ls
abc mydir
[root@localhost data]# cd /data/mydir
[root@localhost mydir]# cd
[root@localhost ~]#
[root@localhost ~]# cd /data
[root@localhost data]#
[root@localhost data]# ls
abc mydir
[root@localhost data]#
[root@localhost data]# cd mydir
[root@localhost mydir]#
[root@localhost mydir]# pwd
/data/mydir
[root@localhost mydir]# cd ..
[root@localhost data]# cd ..
[root@localhost /]# cd ..
[root@localhost /]# cd
[root@localhost ~]#
[root@localhost ~]# cd /home
[root@localhost home]#
[root@localhost home]# ls
rajat soniya student vinit
[root@localhost home]#
[root@localhost home]# cd /home/student
[root@localhost student]# cd
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# cd /home
[root@localhost home]#
[root@localhost home]# ls
rajat soniya student vinit
[root@localhost home]#
[root@localhost home]# cd student
[root@localhost student]# pwd
/home/student
[root@localhost student]# cd
[root@localhost ~]#
[root@localhost ~]# cd /home
[root@localhost home]#
[root@localhost home]# ls
rajat soniya student vinit
[root@localhost home]#
[root@localhost home]# cd /student
bash: cd: /student: No such file or directory
[root@localhost home]#
[root@localhost home]# cd
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# ls
abc
      abc3
                        Downloads
                                    hcl0
                                           ibm1
                                                  Music
                                                               rajeev2.txt sumit1 tech1
                                                                                               Videos xyz6
                        gopesh1.py hcl10 ibm2
ahc1
      abc4
                                                  Pictures
                                                               rajeev3.txt tcs1
                                                                                    tech3
                                                                                               xyz1
abc10 anaconda-ks.cfg gopesh2.py hcl2
                                           ibm3
                                                  Public
                                                               rajeev4.txt tcs2
                                                                                    tech5
                                                                                               xyz2
abc11 data
                        gopesh3.py hcl4
                                           ibm4
                                                  rajat
                                                               rajeev5.txt tcs3
                                                                                    tech7
                                                                                               xyz3
abc13 Desktop
                        gopesh4.py hcl6
                                           ibm5
                                                               rajeev.txt
                                                                                    tech9
                                                                                               xyz4
                                                  rajat1
                                                                            tcs4
      Documents
                        gopesh5.py hcl8
                                           kapil rajeev1.txt sumit
                                                                            tcs5
                                                                                    Templates xyz5
abc2
[root@localhost ~]#
[root@localhost ~]# cd Desktop
[root@localhost Desktop]# cd
[root@localhost ~]#
[root@localhost ~]# cd /root/Desktop
[root@localhost Desktop]# cd
[root@localhost ~]#
[root@localhost ~]# cd ~/Desktop
```

```
[root@localhost Desktop]# cd
[root@localhost ~]#
[root@localhost ~]# cd /Desktop
bash: cd: /Desktop: No such file or directory
[root@localhost ~]#
[root@localhost ~]# ls /
      afs boot dev home lib64 media opt
abc
                                                root sbin sys usr
abc12 bin data etc lib
                            linux mnt
                                           proc
                                                run
                                                      srv
[root@localhost ~]#
[root@localhost ~]# ls
abc
       abc3
                       Downloads
                                   hcl0
                                           ibm1
                                                 Music
                                                              rajeev2.txt sumit1 tech1
                                                                                              Videos xyz6
                        gopesh1.py hcl10 ibm2
ahc1
      abc4
                                                 Pictures
                                                              rajeev3.txt tcs1
                                                                                   tech3
                                                                                              xyz1
abc10 anaconda-ks.cfg gopesh2.py hcl2
                                           ibm3
                                                  Public
                                                              rajeev4.txt tcs2
                                                                                   tech5
                                                                                               xyz2
abc11 data
                        gopesh3.py hcl4
                                           ibm4
                                                  rajat
                                                              rajeev5.txt tcs3
                                                                                    tech7
                                                                                               xyz3
abc13 Desktop
                                          ibm5
                                                              rajeev.txt
                        gopesh4.py hcl6
                                                  rajat1
                                                                           tcs4
                                                                                    tech9
                                                                                               xyz4
                        gopesh5.py hcl8
abc2
      Documents
                                           kapil rajeev1.txt sumit
                                                                           tcs5
                                                                                    Templates xyz5
[root@localhost ~]# pwd
/root
[root@localhost ~]# cd /root/Desktop
[root@localhost Desktop]# cd
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# mkdir /redhat
[root@localhost ~]#
[root@localhost ~]# ls /
       afs boot dev home lib64 media opt
                                                redhat run
abc
                                                              srv tmp
                                                                        var
abc12 bin data etc lib
                            linux mnt
                                           proc root
                                                         sbin
                                                              sys usr
[root@localhost ~]#
[root@localhost ~]# mkdir /redhat/data1
[root@localhost ~]#
[root@localhost ~]# ls /redhat
data1
[root@localhost ~]#
[root@localhost ~]# ls /redhat/data1
[root@localhost ~]#
[root@localhost ~]# mkdir /redhat/data1/data2
[root@localhost ~]#
[root@localhost ~]# ls /redhat
data1
[root@localhost ~]# ls /redhat/data1
data2
[root@localhost ~]#
[root@localhost ~]# ls /redhat/data1/data2
[root@localhost ~]#
[root@localhost ~]# mkdir /redhat/data1/data2/data3
[root@localhost ~]#
[root@localhost ~]# ls /redhat
data1
[root@localhost ~]#
[root@localhost ~]# ls /redhat/data1
data2
[root@localhost ~]#
[root@localhost ~]# ls /redhat/data1/data2
[root@localhost ~]#
[root@localhost ~]# ls /redhat/data1/data2/data3
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# ls -R /redhat
/redhat:
data1
/redhat/data1:
data2
/redhat/data1/data2:
data3
/redhat/data1/data2/data3:
[root@localhost ~]#
[root@localhost ~]# ls
                         /redhat
data1
[root@localhost ~]#
```

```
[root@localhost ~]# tree
                           /redhat
/redhat
  — data1
    └── data2
        └── data3
3 directories, 0 files
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch /redhat/abc1
[root@localhost ~]#
[root@localhost ~]# ls -R /redhat
/redhat:
abc1 data1
/redhat/data1:
data2
/redhat/data1/data2:
data3
/redhat/data1/data2/data3:
[root@localhost ~]#
[root@localhost ~]# tree
                           /redhat
/redhat
   abc1
   - data1
       - data2
        └── data3
3 directories, 1 file
[root@localhost ~]#
[root@localhost ~]# cat /redhat/abc1
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# cd /redhat
[root@localhost redhat]#
[root@localhost redhat]# pwd
/redhat
[root@localhost redhat]# ls
abc1 data1
[root@localhost redhat]#
[root@localhost redhat]# cd data1
[root@localhost data1]#
[root@localhost data1]# ls
[root@localhost data1]# cd data2
[root@localhost data2]#
[root@localhost data2]# ls
data3
[root@localhost data2]# cd data3
[root@localhost data3]#
[root@localhost data3]# 1s
[root@localhost data3]#
[root@localhost data3]# pwd
/redhat/data1/data2/data3
[root@localhost data3]#
[root@localhost data3]# cd ..
[root@localhost data2]#
[root@localhost data2]# cd ../..
[root@localhost redhat]#
[root@localhost redhat]# cd /
[root@localhost /]#
[root@localhost /]# cd ..
[root@localhost /]# cd ..
[root@localhost /]#
[root@localhost /]# cd
[root@localhost ~]#
[root@localhost ~]# cd
[root@localhost \sim]# cd \sim
[root@localhost ~]# cd /root
[root@localhost ~]# cd /redhat/data1/data2
[root@localhost data2]#
[root@localhost data2]# pwd
```

```
/redhat/data1/data2
[root@localhost data2]# cd
[root@localhost ~]#
[root@localhost ~]# cd -
/redhat/data1/data2
[root@localhost data2]#
[root@localhost data2]# cd
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# cd /home
[root@localhost home]# cd
[root@localhost ~]#
[root@localhost ~]# date
Sun Feb 9 11:25:27 AM IST 2025
[root@localhost ~]#
[root@localhost ~]# cal
   February 2025
Su Mo Tu We Th Fr Sa
 2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28
[root@localhost ~]#
[root@localhost ~]# cd -
/home
[root@localhost home]#
[root@localhost home]# cd
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# cd /redhat/data1/data2
[root@localhost data2]#
[root@localhost data2]# cd ..
[root@localhost data1]# cd ../..
[root@localhost /]#
[root@localhost /]#
[root@localhost /]# cd /
[root@localhost /]#
[root@localhost /]# cd
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# cd /redhat/data1
[root@localhost data1]# cd
[root@localhost ~]#
[root@localhost ~]# cd -
/redhat/data1
[root@localhost data1]# cd
[root@localhost ~]#
[root@localhost ~]#
______
[root@localhost ~]# cd /root
[root@localhost ~]# cd
                                     ===> to go in my home directory if i am login with root account
[root@localhost ~]# cd ~
[root@localhost ~]#
[soniya@localhost ~]$ cd /home/soniya
[soniya@localhost ~]$ cd
                                       ===> to go in my home directory if i am login with root account
[soniya@localhost ~]$ cd ~
[soniya@localhost ~]$
______
Types of path ?
1- Relative Path
2- Absolute Path
```

_____ [root@localhost ~]# cd / [root@localhost /]# ls afs boot dev home lib64 media opt redhat run srv tmp var abc12 bin data etc lib linux mnt proc root sbin sys usr xyz [root@localhost /]# [root@localhost /]# cd redhat [root@localhost redhat]# ls abc1 data1 [root@localhost redhat]# [root@localhost redhat]# cd data1 [root@localhost data1]# ls data2 [root@localhost data1]# [root@localhost data1]# cd data2 [root@localhost data2]# cd [root@localhost ~]# [root@localhost ~]# cd /redhat/data1/data2 [root@localhost data2]# [root@localhost data2]# cd [root@localhost ~]# _____ cd directoryname ===> to go into any directory pwd ===> to check my present working directory location cd .. ===> just go on one label back cd ../.. ===> two lebel back cd / ==> always go on my parent directory cd OR cd ~ ==> always go in my home directory cd -==> go on last working directory touch ===> just to create blank file for testing purpose only ===> to create any directory 1s -R ==> to check the complete data listing ==> to check data listing in tree format tree _____ [root@localhost ~]# [root@localhost ~]# cd /redhat/data1/data2 [root@localhost data2]# [root@localhost data2]# ls data3 [root@localhost data2]# [root@localhost data2]# 1s ~ abc abc3 Downloads hcl0 ibm1 Music rajeev2.txt sumit1 tech1 Videos xyz6 gopesh1.py hcl10 ibm2 Pictures tech3 abc1 abc4 rajeev3.txt tcs1 xyz1 abc10 anaconda-ks.cfg gopesh2.py hcl2 ibm3 Public tech5 rajeev4.txt tcs2 xyz2 abc11 data gopesh3.py hcl4 ibm4 rajat rajeev5.txt tcs3 tech7 xyz3 abc13 Desktop gopesh4.py hcl6 rajeev.txt ibm5 rajat1 tcs4 tech9 xyz4 gopesh5.py hc18 abc2 Documents kapil rajeev1.txt sumit tcs5 Templates xyz5 [root@localhost data2]# [root@localhost data2]# ls /root abc abc3 Downloads hcl0 ibm1 Music rajeev2.txt sumit1 tech1 Videos xyz6 gopesh1.py hcl10 ibm2 rajeev3.txt tcs1 Pictures ahc1 ahc4 tech3 xyz1 abc10 anaconda-ks.cfg gopesh2.py hcl2 ibm3 Public rajeev4.txt tcs2 tech5 xyz2 ibm4 abc11 data gopesh3.py hcl4 rajat rajeev5.txt tcs3 tech7 xyz3 abc13 Desktop gopesh4.py hcl6 ibm5 rajeev.txt tcs4 tech9 xyz4 rajat1 gopesh5.py hc18 Documents kapil rajeev1.txt sumit tcs5 Templates xyz5 abc2 [root@localhost data2]# [root@localhost data2]# touch ~/manish [root@localhost data2]# [root@localhost data2]# ls data3 [root@localhost data2]# ls ~

Downloads

abc

abc1

abc3

abc4

hcl0

gopesh1.py hcl10 ibm2

ibm1

manish

Music

raieev1.txt sumit

Templates xyz5

xyz6

tcs5

rajeev2.txt sumit1 tech1 Videos

```
abc10 anaconda-ks.cfg gopesh2.py hcl2
                                         ibm3
                                                Pictures rajeev3.txt tcs1
                                                                             tech3 xyz1
                                                         rajeev4.txt tcs2 rajeev5.txt tcs3
                                                                             tech5 xyz2
tech7 xyz3
abc11 data
                       gopesh3.py hcl4
                                         ibm4
                                                Public
abc13 Desktop
                       gopesh4.py hcl6
                                         ibm5
                                                rajat
                       gopesh5.py hcl8
                                         kapil rajat1
ahc2
      Documents
                                                         rajeev.txt tcs4
                                                                             tech9 xyz4
[root@localhost data2]#
[root@localhost data2]# touch /manish
[root@localhost data2]#
[root@localhost data2]# ls /
      afs boot dev home lib64 manish mnt proc
abc
                                                       root sbin sys usr
abc12 bin data etc lib
                          linux media
                                          opt redhat run
                                                            srv
                                                                  tmp
[root@localhost data2]#
[root@localhost data2]# touch /tmp/manish
[root@localhost data2]#
[root@localhost data2]# ls /tmp
[root@localhost data2]#
[root@localhost data2]# pwd
/redhat/data1/data2
[root@localhost data2]#
[root@localhost data2]#
[root@localhost data2]# touch ../abc
[root@localhost data2]#
[root@localhost data2]# 1s ..
abc data2
[root@localhost data2]#
[root@localhost data2]# mkdir ../../rajat
[root@localhost data2]#
[root@localhost data2]# ls ../..
abc1 data1 rajat
[root@localhost data2]#
[root@localhost data2]# ls
data3
[root@localhost data2]# touch data3/abc
[root@localhost data2]#
[root@localhost data2]# ls data3
abc
[root@localhost data2]# cd
[root@localhost ~]#
______
How we can create nested directory OR Parent directory using single command ?
_____
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# mkdir /fedora/redhat/kali/centos
mkdir: cannot create directory '/fedora/redhat/kali/centos': No such file or directory
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# mkdir -p
                               /fedora/redhat/kali/centos
[root@localhost ~]#
[root@localhost ~]# tree /fedora
/fedora
   - redhat
       – kali
        └── centos
3 directories, 0 files
[root@localhost ~]# mkdir
                            /fedora/redhat/kali/centos/krishna
[root@localhost ~]#
[root@localhost ~]# mkdir -p
                                 /fedora/redhat/kali/centos/krishna/kr/network/cloud
[root@localhost ~]#
[root@localhost ~]# mkdir --help
[root@localhost ~]#
[root@localhost ~]# mkdir -p /kr/network/cloud
[root@localhost ~]#
[root@localhost ~]# ls -R /kr
/kr:
network
/kr/network:
cloud
```

```
/kr/network/cloud:
[root@localhost ~]#
[root@localhost ~]# tree /kr
/kr
   - network
    └── cloud
2 directories, 0 files
[root@localhost ~]#
[root@localhost ~]# mkdir --parents /html/java/xml
[root@localhost ~]#
[root@localhost ~]# tree /html
/html
   - java
    L- xml
2 directories, 0 files
[root@localhost ~]#
______
   .. and cd ../.. and cd - and cd and cd
cd
         ==> current working directory
cd
         ==> one level back always
         ==> go on last working directory
______
[root@localhost ~]# cd .
[root@localhost ~]#
[root@localhost ~]# ls
abc
      abc3
                       Downloads
                                  hcl0
                                         ibm1
                                                manish
                                                          rajeev1.txt sumit
                                                                              tcs5
                                                                                     Templates
                                                                                               xvz5
                       gopesh1.py hcl10 ibm2
      ahc4
                                                Music
                                                                      sumit1 tech1
                                                                                    Videos
ahc1
                                                          rajeev2.txt
                                                                                               xyz6
abc10 anaconda-ks.cfg
                      gopesh2.py hcl2
                                         ibm3
                                                Pictures
                                                          rajeev3.txt tcs1
                                                                              tech3
                                                                                    xyz1
abc11 data
                       gopesh3.py hcl4
                                         ibm4
                                                Public
                                                          rajeev4.txt tcs2
                                                                              tech5
                                                                                    xyz2
                       gopesh4.py
                                  hc16
                                         ibm5
                                                                              tech7
abc13 Desktop
                                                rajat
                                                          rajeev5.txt tcs3
                                                                                    xyz3
                       gopesh5.py hc18
                                         kapil
                                                rajat1
                                                                              tech9
abc2
      Documents
                                                          rajeev.txt
                                                                      tcs4
                                                                                    xyz4
[root@localhost ~]#
[root@localhost ~]# ls
abc
      abc3
                       Downloads
                                  hcl0
                                         ibm1
                                                manish
                                                          rajeev1.txt sumit
                                                                              tcs5
                                                                                     Templates
                                                                                               xyz5
                       gopesh1.py hcl10
abc1
      abc4
                                         ibm2
                                                Music
                                                          rajeev2.txt sumit1 tech1
                                                                                    Videos
                                                                                               xyz6
abc10
      anaconda-ks.cfg
                       gopesh2.py
                                  hc12
                                         ibm3
                                                Pictures
                                                          rajeev3.txt
                                                                      tcs1
                                                                              tech3
                                                                                     xyz1
abc11
      data
                       gopesh3.py
                                  hcl4
                                         ibm4
                                                Public
                                                          rajeev4.txt
                                                                      tcs2
                                                                              tech5
                                                                                     xyz2
                       gopesh4.py
abc13 Desktop
                                  hc16
                                         ibm5
                                                                              tech7
                                                rajat
                                                          rajeev5.txt
                                                                      tcs3
                                                                                    xvz3
abc2
      Documents
                       gopesh5.py hcl8
                                         kapil
                                                rajat1
                                                          rajeev.txt
                                                                              tech9
                                                                      tcs4
                                                                                    xyz4
[root@localhost ~]#
[root@localhost ~]# cd /kr/network
[root@localhost network]#
[root@localhost network]# pwd
/kr/network
[root@localhost network]#
[root@localhost network]#
[root@localhost network]#
[root@localhost network]# cp
                              /etc/crontab
[root@localhost network]#
[root@localhost network]# 1s
cloud crontab
[root@localhost network]# cp
                              /etc/passwd
                                             /kr/network
[root@localhost network]#
[root@localhost network]# ls
cloud crontab passwd
[root@localhost network]#
[root@localhost network]# cp
                            /etc/passwd
[root@localhost network]#
[root@localhost network]# cd
[root@localhost ~]#
[root@localhost ~]# ls
abc
                       Downloads
                                  hcl0
                                         ibm1
      abc3
                                                manish
                                                          rajat1
                                                                      rajeev.txt tcs4
                                                                                         tech9
                                                                                                   xyz4
abc1
      abc4
                       gopesh1.py hcl10
                                         ibm2
                                                Music
                                                          rajeev1.txt
                                                                      sumit
                                                                                  tcs5
                                                                                         Templates
                                                                                                   xyz5
abc10 anaconda-ks.cfg gopesh2.py
                                         ibm3
                                                          rajeev2.txt sumit1
                                                                                  tech1 Videos
                                  hcl2
                                                passwd
                                                                                                   xyz6
                                                                                  tech3 xyz1
abc11 data
                       gopesh3.py hcl4
                                         ibm4
                                                Pictures
                                                          rajeev3.txt tcs1
```

abc13 Desktop abc2 Documents	<pre>gopesh4.py gopesh5.py</pre>	hcl6 hcl8			rajeev4.txt rajeev5.txt	tcs2 tcs3	tech5 tech7	•
[root@localhost ~]#	Bobes		p	. aga e .	ajeersrene			,
[root@localhost ~]# to [root@localhost ~]# [root@localhost ~]# to [root@localhost ~]# [root@localhost ~]# to [root@localhost ~]# to [root@localhost ~]# to	ouch ~/rahul2 ouch /root/ra	hul3						
<pre>[root@localhost ~]# [root@localhost ~]# 19</pre>	;							
abc abc4 abc1 anaconda-ks.cfg abc10 data abc11 Desktop abc13 Documents abc2 Downloads abc3 gopesh1.py [root@localhost ~]#	gopesh2.py	hcl4 hcl6 hcl8 ibm1 ibm2 ibm3 ibm4	ibm5 kapil manish Music passwd Pictures Public	rahul1 rahul2 rahul3 rahul4 rajat rajat1 rajeev1.t	rajeev2 rajeev3 rajeev4 rajeev5 rajeev. sumit txt sumit1	.txt to .txt to .txt to txt to	cs1 tech5 cs2 tech7 cs3 tech9 cs4 Temp1 cs5 Video ech1 xyz1 ech3 xyz2	xyz4 xyz5 ates xyz6
