

## Practical Session

### 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 var
[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 media opt root sbin sys usr
bin dev home lib64 mnt proc run srv tmp var
[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 tmp var
[student@localhost ~]$
[student@localhost ~]$ exit
logout
[root@localhost ~]#

=====

[root@localhost ~]# pwd
/root
[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 ~]# 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 Videos
[root@localhost ~]#
[root@localhost ~]# ls /
abc bin dev home lib64 mnt proc run srv tmp var
afs boot etc lib media opt root sbin sys usr xyz
[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
abc abc2 abc4 Desktop Downloads Pictures Templates xyz1 xyz3
abc1 abc3 anaconda-ks.cfg Documents Music Public Videos xyz2
[root@localhost ~]#
[root@localhost ~]# touch xyz4 /root/xyz5 ~/xyz6 /linux
[root@localhost ~]#
[root@localhost ~]# ls
abc abc2 abc4 Desktop Downloads Pictures Templates xyz1 xyz3 xyz5
abc1 abc3 anaconda-ks.cfg Documents Music Public Videos xyz2 xyz4 xyz6
[root@localhost ~]#
[root@localhost ~]# ls /
abc bin dev home lib64 media opt root sbin sys usr xyz
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
abc  abc2  abc4          Desktop  Downloads  Pictures  tcs1  tcs3  tcs5      Videos  xyz2  xyz4  xyz6
abc1  abc3  anaconda-ks.cfg Documents  Music      Public   tcs2  tcs4  Templates xyz1    xyz3  xyz5
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# touch ibm{1..5}
[root@localhost ~]#
[root@localhost ~]# ls
abc  abc3          Desktop  ibm1  ibm4  Pictures  tcs2  tcs5      xyz1  xyz4
abc1  abc4          Documents ibm2  ibm5  Public    tcs3  Templates xyz2  xyz5
abc2  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  xyz5
abc1  abc4          Documents ibm2  ibm5  Public    tcs1  tcs4  Videos   xyz3  xyz6
abc2  anaconda-ks.cfg Downloads ibm3  Music  rajat     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  xyz6
abc1  abc4          Documents ibm2  ibm5  Public    sumit   tcs2  tcs5      xyz1    xyz4
abc2  anaconda-ks.cfg Downloads ibm3  Music  rajat     sumit1  tcs3  Templates 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
abc2  anaconda-ks.cfg Downloads ibm3  Music  rajat     sumit      tcs2    tcs5  xyz1      xyz4
[root@localhost ~]#
[root@localhost ~]# touch rajeev{1..5}.txt
[root@localhost ~]#
[root@localhost ~]# ls
abc  abc4          Downloads  ibm4      Public      rajeev2.txt  rajeev.txt  tcs2  Templates  xyz3
abc1  anaconda-ks.cfg ibm1       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          gopesh3.py  ibm3  Public    rajeev3.txt  sumit1 tcs5      xyz3
abc2  Documents        gopesh4.py  ibm4  rajat     rajeev4.txt  tcs1    Templates xyz4
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          gopesh3.py  hcl2   ibm2  Pictures rajeev2.txt  sumit       tcs4      xyz2
abc2  Documents        gopesh4.py  hcl4   ibm3  Public  rajeev3.txt  sumit1      tcs5      xyz3
abc3  Downloads        gopesh5.py  hcl6   ibm4  rajat   rajeev4.txt  tcs1        Templates xyz4
abc4  gopesh1.py       hcl0       hcl8   ibm5  rajat1  rajeev5.txt  tcs2        Videos   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  hcl2   ibm2  Pictures rajeev2.txt  sumit       tcs4  tech7      xyz2
abc2  Documents        gopesh4.py  hcl4   ibm3  Public  rajeev3.txt  sumit1      tcs5  tech9      xyz3
abc3  Downloads        gopesh5.py  hcl6   ibm4  rajat   rajeev4.txt  tcs1        tech1 Templates xyz4

```

```

abc4 gopesh1.py      hcl10      hcl18      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
abc  anaconda-ks.cfg  gopesh2.py  hcl110  ibm1  kapil  rajat1  rajeev5.txt  tcs2  tech3  Videos  xyz5
abc1 Desktop        gopesh3.py  hcl12   ibm2  Music  rajeev1.txt  rajeev.txt  tcs3  tech5  xyz1     xyz6
abc2 Documents     gopesh4.py  hcl14   ibm3  Pictures  rajeev2.txt  sumit    tcs4  tech7  xyz2
abc3 Downloads     gopesh5.py  hcl16   ibm4  Public  rajeev3.txt  sumit1   tcs5  tech9  xyz3
abc4 gopesh1.py      hcl10      hcl18      ibm5      rajat    rajeev4.txt  tcs1     tech1  Templates  xyz4
[root@localhost ~]#
[root@localhost ~]# ls /tmp
abc
dbus-qdu0hykez
kapil
systemd-private-bf2ef57264b344ac823260c31253b8c6-bluetooth.service-u2ecb2
systemd-private-bf2ef57264b344ac823260c31253b8c6-chrond.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

[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 tmp var
[rajat@localhost ~]$
[rajat@localhost ~]$ ls /tmp
abc
dbus-qdu0hykez
kapil
systemd-private-bf2ef57264b344ac823260c31253b8c6-bluetooth.service-u2ecb2
systemd-private-bf2ef57264b344ac823260c31253b8c6-chrond.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 ~]$ pwd
/home/rajat
[rajat@localhost ~]$ touch myfile1
[rajat@localhost ~]$
[rajat@localhost ~]$ ls
myfile1
[rajat@localhost ~]$ touch /tmp/myfile2
[rajat@localhost ~]$
[rajat@localhost ~]$ ls /tmp
abc
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 ~]# ls
abc  anaconda-ks.cfg  gopesh1.py  hcl10  hcl18  ibm5  rajat  rajeev4.txt  tcs1  tech1  Templates  xyz4
abc1  data              gopesh2.py  hcl110  ibm1   kapil  rajat1  rajeev5.txt  tcs2  tech3  Videos    xyz5
abc2  Desktop          gopesh3.py  hcl12   ibm2   Music  rajeev1.txt  rajeev.txt  tcs3  tech5  xyz1       xyz6
abc3  Documents        gopesh4.py  hcl14   ibm3   Pictures  rajeev2.txt  sumit      tcs4  tech7  xyz2
abc4  Downloads        gopesh5.py  hcl16   ibm4   Public  rajeev3.txt  sumit1     tcs5  tech9  xyz3
[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  xyz
[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 hcl4 ibm4 rajat rajeev5.txt tcs3 tech7 xyz3
abc13 Desktop gopesh4.py hcl6 ibm5 rajat1 rajeev.txt tcs4 tech9 xyz4
abc2 Documents gopesh5.py hcl8 kapil rajeev1.txt sumit tcs5 Templates xyz5
[root@localhost ~]#
[root@localhost ~]# ls /
abc afs boot dev home lib64 media opt root sbin sys usr xyz
abc12 bin data etc lib linux mnt proc run srv tmp var
[root@localhost ~]#

[root@localhost ~]# pwd
/root
[root@localhost ~]# cd /
[root@localhost /]# ls
abc afs boot dev home lib64 media opt root sbin sys usr xyz
abc12 bin data etc lib linux mnt proc run srv tmp var
[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
abc afs boot dev home lib64 media opt root sbin sys usr xyz
abc12 bin data etc lib linux mnt proc run srv tmp var
[root@localhost /]# cd
[root@localhost ~]#
[root@localhost ~]# cd ..
[root@localhost /]#
[root@localhost /]# ls
abc afs boot dev home lib64 media opt root sbin sys usr xyz

```

```

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
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 hcl4 ibm4 rajat rajeev5.txt tcs3 tech7 xyz3
abc13 Desktop gopesh4.py hcl6 ibm5 rajat1 rajeev.txt tcs4 tech9 xyz4
abc2 Documents gopesh5.py hcl8 kapil rajeev1.txt sumit tcs5 Templates xyz5
[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 /
abc  afs  boot  dev  home  lib64  media  opt  root  sbin  sys  usr  xyz
abc12  bin  data  etc  lib  linux  mnt  proc  run  srv  tmp  var
[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  hcl12  ibm3  Public  rajeev4.txt  tcs2  tech5  xyz2
abc11  data  gopesh3.py  hcl14  ibm4  rajat  rajeev5.txt  tcs3  tech7  xyz3
abc13  Desktop  gopesh4.py  hcl16  ibm5  rajat1  rajeev.txt  tcs4  tech9  xyz4
abc2  Documents  gopesh5.py  hcl18  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 /
abc  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 ~]# 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
data3
[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
data2
[root@localhost data1]# cd data2
[root@localhost data2]#
[root@localhost data2]# ls
data3
[root@localhost data2]# cd data3
[root@localhost data3]#
[root@localhost data3]# ls
[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 ~]# cd ~
[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 ~]# 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
                1
 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
abc  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 label 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
mkdir ==> to create any directory
ls -R ==> to check the complete data listing
tree ==> to check data listing in tree format
```

=====

```
[root@localhost ~]#
[root@localhost ~]# cd /redhat/data1/data2
[root@localhost data2]#
[root@localhost data2]# ls
data3
[root@localhost data2]#
[root@localhost data2]# ls ~
abc  abc3  Downloads  hcl10  ibm1  Music  rajeev2.txt  sumit1  tech1  Videos  xyz6
abc1  abc4  gopesh1.py  hcl110  ibm2  Pictures  rajeev3.txt  tcs1  tech3  xyz1
abc10  anaconda-ks.cfg  gopesh2.py  hcl12  ibm3  Public  rajeev4.txt  tcs2  tech5  xyz2
abc11  data  gopesh3.py  hcl14  ibm4  rajat  rajeev5.txt  tcs3  tech7  xyz3
abc13  Desktop  gopesh4.py  hcl16  ibm5  rajat1  rajeev.txt  tcs4  tech9  xyz4
abc2  Documents  gopesh5.py  hcl18  kapil  rajeev1.txt  sumit  tcs5  Templates  xyz5
[root@localhost data2]#
[root@localhost data2]# ls /root
abc  abc3  Downloads  hcl10  ibm1  Music  rajeev2.txt  sumit1  tech1  Videos  xyz6
abc1  abc4  gopesh1.py  hcl110  ibm2  Pictures  rajeev3.txt  tcs1  tech3  xyz1
abc10  anaconda-ks.cfg  gopesh2.py  hcl12  ibm3  Public  rajeev4.txt  tcs2  tech5  xyz2
abc11  data  gopesh3.py  hcl14  ibm4  rajat  rajeev5.txt  tcs3  tech7  xyz3
abc13  Desktop  gopesh4.py  hcl16  ibm5  rajat1  rajeev.txt  tcs4  tech9  xyz4
abc2  Documents  gopesh5.py  hcl18  kapil  rajeev1.txt  sumit  tcs5  Templates  xyz5
[root@localhost data2]#
[root@localhost data2]# touch ~/manish
[root@localhost data2]#
[root@localhost data2]# ls
data3
[root@localhost data2]# ls ~
abc  abc3  Downloads  hcl10  ibm1  manish  rajeev1.txt  sumit  tcs5  Templates  xyz5
abc1  abc4  gopesh1.py  hcl110  ibm2  Music  rajeev2.txt  sumit1  tech1  Videos  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
abc13  Desktop              gopesh4.py  hcl6    ibm5    rajat     rajeev5.txt  tcs3    tech7  xyz3
abc2   Documents           gopesh5.py  hcl8    kapil   rajat1    rajeev.txt   tcs4    tech9  xyz4
[root@localhost data2]#
[root@localhost data2]# touch /manish
[root@localhost data2]#
[root@localhost data2]# ls /
abc    afs    boot  dev   home  lib64  manish  mnt   proc   root  sbin  sys  usr  xyz
abc12  bin    data  etc   lib   linux  media   opt   redhat run  srv   tmp  var
[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]# ls ..
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
│   └── xml
```

```
2 directories, 0 files
[root@localhost ~]#
```

```
=====
```

```
cd .. and cd ../.. and cd - and cd and cd .
```

```
cd . ==> current working directory
cd .. ==> one level back always
cd - ==> go on last working directory
```

```
=====
```

```
[root@localhost ~]# cd .
[root@localhost ~]#
[root@localhost ~]# ls
abc abc3 Downloads hcl0 ibm1 manish rajeev1.txt sumit tcs5 Templates xyz5
abc1 abc4 gopesh1.py hcl10 ibm2 Music rajeev2.txt sumit1 tech1 Videos xyz6
abc10 anaconda-ks.cfg gopesh2.py hcl12 ibm3 Pictures rajeev3.txt tcs1 tech3 xyz1
abc11 data gopesh3.py hcl14 ibm4 Public rajeev4.txt tcs2 tech5 xyz2
abc13 Desktop gopesh4.py hcl16 ibm5 rajat rajeev5.txt tcs3 tech7 xyz3
abc2 Documents gopesh5.py hcl18 kapil rajat1 rajeev.txt tcs4 tech9 xyz4
[root@localhost ~]#
[root@localhost ~]# ls .
abc abc3 Downloads hcl0 ibm1 manish rajeev1.txt sumit tcs5 Templates xyz5
abc1 abc4 gopesh1.py hcl10 ibm2 Music rajeev2.txt sumit1 tech1 Videos xyz6
abc10 anaconda-ks.cfg gopesh2.py hcl12 ibm3 Pictures rajeev3.txt tcs1 tech3 xyz1
abc11 data gopesh3.py hcl14 ibm4 Public rajeev4.txt tcs2 tech5 xyz2
abc13 Desktop gopesh4.py hcl16 ibm5 rajat rajeev5.txt tcs3 tech7 xyz3
abc2 Documents gopesh5.py hcl18 kapil rajat1 rajeev.txt tcs4 tech9 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]# cp /etc/crontab .
[root@localhost network]#
[root@localhost network]# ls
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 abc3 Downloads hcl0 ibm1 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 hcl12 ibm3 passwd rajeev2.txt sumit1 tech1 Videos xyz6
abc11 data gopesh3.py hcl14 ibm4 Pictures rajeev3.txt tcs1 tech3 xyz1
```

```

abc13 Desktop          gopesh4.py hcl6   ibm5   Public  rajeev4.txt tcs2      tech5 xyz2
abc2  Documents        gopesh5.py hcl8   kapil  rajat   rajeev5.txt tcs3      tech7 xyz3
[root@localhost ~]#

```

```

[root@localhost ~]# touch rahul1
[root@localhost ~]#
[root@localhost ~]# touch ~/rahul2
[root@localhost ~]#
[root@localhost ~]# touch /root/rahul3
[root@localhost ~]#
[root@localhost ~]# touch ./rahul4
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# ls

```

```

abc    abc4          gopesh2.py hcl4   ibm5    rahul1    rajeev2.txt tcs1     tech5    xyz3
abc1   anaconda-ks.cfg gopesh3.py hcl6   kapil    rahul2    rajeev3.txt tcs2     tech7    xyz4
abc10  data              gopesh4.py hcl8   manish   rahul3    rajeev4.txt tcs3     tech9    xyz5
abc11  Desktop          gopesh5.py ibm1    Music    rahul4    rajeev5.txt tcs4     Templates xyz6
abc13  Documents        hcl0      ibm2    passwd   rajat     rajeev.txt  tcs5     Videos
abc2   Downloads        hcl10     ibm3    Pictures rajat1     sumit      tech1    xyz1
abc3   gopesh1.py        hcl2      ibm4    Public   rajeev1.txt sumit1     tech3    xyz2
[root@localhost ~]#

```

```

=====

```