1. Create folder 'Test' in your home directory​

Ans:    mkdir test

2. Create below files​

 Ans:  - employeelist​

      touch employeelist

      ls -l

  - skillset​

      touch skillset

       ls -l

3. Create folder Test in home directory​

 Ans:      mkdir Test

  - create symbolink and hard link for skillset file

     ln -s skillset symlink

     ls -l

      ln  skillset hardlink

      ls -l

​

  - delete skillset file and check if hardlink and symbolic link file exists​

     rm skillset

      ln skillset symlink

ln: failed to create symbolic link 'symlink': File exists

      ln  skillset hardlink

ln: failed to access 'skillset': No such file or directory

   explain the difference b/n symbolic and hard links​

Symbolic link- creates a reference to the original file.

               inode number will be unique.

If the file is deleted the symbolic link becomes invalid

Hardlink- creates a carbon copy of the file.

          will have same inode number.

          directly points to the file.

4. Provide read and write permission to 'user2' group​

 Ans:  test if user2 group users can access the file​

           chmod g+r file123

           chmod g+w file123

5. Revoke write permission from user2 group and test the access again​

​ Ans:          chmod g-w file123

           Access denied

6. Grant write permission for others and test it

  Ans:        chmod o+w file123

7. Revoke write permission for others and test again​

  Ans:        chmod o-w file123

          Access denied

8. Change the group of employeelist file to 'user3'​ test if user3 group have access​

 Ans:         chgrp user3 employeelist

9. Change ownership of the file to user5 and test​

          chown user5 file1

10. check how many employees are there  (hint: use wc command)​

           wc employees

**2nd excercise**

\*Create file “File1”​

   mkdir File1

\*Append 2 more lines to the same file​

   cat >>File1

sonata software

hello

hai

\*Create File2 with few lines​

    mkdir File2

 cat >>File2

hello

helloBye

\*Display the contents of both File1 and File2​

    cat File1

    cat File2

\*Concatenate both File1 & file2​

   cat File1 File2

\*Send the above output to File​3

   cat File11 File2 > File3

\*Read File1,File2,File3… File5 . Observe the output​

   cat File3 File4 File5 >File6

\*Redirect the errors of the above command to “errorlog”​

   cp File6 2> errfile

\*Concatenate name File1 to 5 and store it in File 10. if any errors, log them in the same file ​

     cat File1 >> File5

     cp File5 File10 2> File10

\*Copy File1 to File6. Add the errors to “errorlog”​

       cp File1 File6 2> errfile