# Lab Session 1

### **Log into UNIX system as per your user\_id and password.**

1. Find out the directory where you are currently placed.
2. Create a directory structure as follows under your home directory.

**HRD OFFICE**

**HR HRAG TRNG FIN MFG**

1. From your home directory list the directory structure that is under the root.
2. Create 3 empty files ***empty1***, ***empty2*** and ***empty3*** under your home directory.
3. Create a file ***text*** under ***HR*** and type a few lines. Display the contents of ***text***.
4. Make a copy of ***text*** into another file ***copytext***under **TRNG.**
5. Create a file ***matte***r under ***HRD*** and input a few sentences for it.
6. Combine the contents of the files ***text*** and ***matter*** into the file ***empty1***.
7. Compare ***text*** and ***copytext***, ***matter*** and ***empty1*** using **cmp** and **comm.**
8. Create a link ***tmp*** under ***FIN*** for ***matter***. Get **inode numbers** for both files?
9. Change the permissions for ***copytext*** to “rwxrw\_rw\_”.
10. Delete the file ***text***. Rename ***copytext*** to ***mytext.***
11. Copy ***mytext*** and ***matter*** under ***OFFICE*** directory and then move both files under ***MFG*** directory.
12. Copy ***OFFICE*** directory structure under **HRAG**directory in one shot.
13. Identify all empty files created earlier and delete them interactively.
14. List the directory structure under your home directory and then delete the same in one shot.
15. Use ***vi*** editor to create a file ***student*** under your home directory. Input 12 lines for the name, age, roll number and sex. Use ‘***|’*** as the field separator. Search some pattern using the editor’s internal commands.
16. (a) Use ***cut*** and ***paste*** commands to alter the field ordering in ***student***.

(b) **Sort** ***student:*** major key ***age***, minor key ***sex***; store sorted output in ***std.***

1. Get all users currently logged on to your system with column headers for the multi-column output and get the complete pathname of your terminal device.
2. Try the command: $ ***who | tee*** file1 | ***wc*** –l | ***tee*** file2

How to use ***tee*** such that the list of the logged users as well as their count is displayed only on the terminal and the same is not stored in any file.