

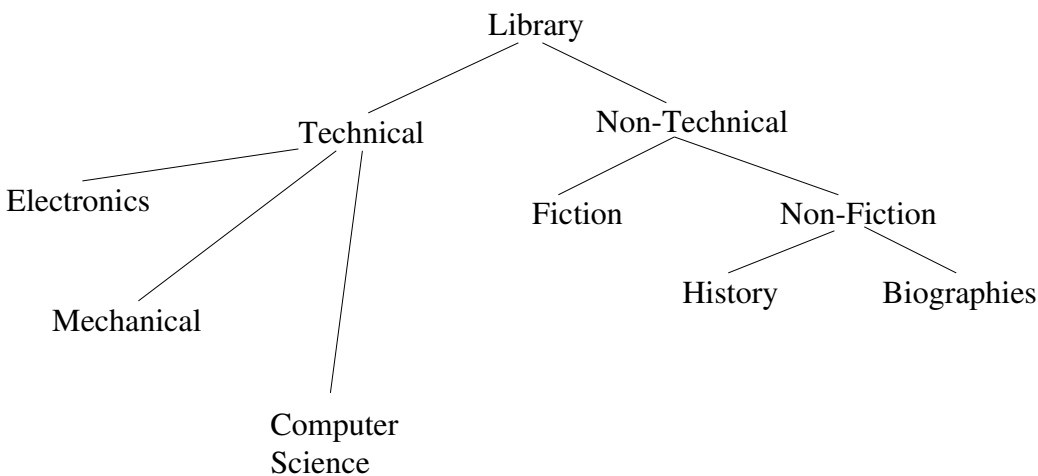
Prabhat – 06

Basic Linux Commands

~ Lab Exercises ~

Example-1

- A library needs to organize its collection of its electronic books on the hard-drive. The books are to be categorized as shown below:



- Create a directory structure to help the library organize its books better.
- You need to add your own autobiography to this library. Create a new file with name: “*MyAutobiography.txt*” to the “*Biographies*” section of the library. Type some text in your *MyAutobiography.txt* file. Save the file and exit.

(Use the vi editor for all your editing purposes).

- The autobiography of Benjamin Franklin is in a file: *BenjaminFranklin.zip*. This file is located on another machine in the network. The machine name is *jatn.it.iitb.ac.in*.

The login credentials of the user account is given below:

- Username: guest
- Password: guest

Now, *BenjaminFranklin.zip* is to be *securely* copied from *jatn.it.iitb.ac.in* to the “*Biographies*” section of the library that you just created.

- The actual autobiography is a text file compressed inside *BenjaminFranklin.zip*. *Extract the contents of the zip* to get the text contents of the autobiography. This text file is called: *BenjaminFranklin.txt*.
- You want to read *BenjaminFranklin.txt* one page at a time. How?
- Search *BenjaminFranklin.txt* for all occurrences of the word “*time*”. Display all the lines which contain the word “*time*”.
- Get a count of the number of such lines. (Don't count them manually.)
- Save all the lines having the word “*time*” in another file called “TimeFile.txt” (Don't copy-past manually.)
- Archive the entire library in a single *tar.gz* file. This single file can now be e-mail'ed or copied to anywhere.

Example-2

- Determine the list of all the users whose accounts have been created on this machine.
- Determine the list of all the users who are current logged-on to the machine.
- There is a ftp server having name: <ftp.it.iitb.ac.in>. A file is located on the server at *pub/prabhat06-data.tar.gz*. Download this file to your machine using ftp. Use *anonymous* login to access this server.
- Extract the contents of this file *pub/prabhat06-data.tar.gz* into a directory. This archive contains two files: *passwd* and *group*.
- From the file *passwd* extract *only the names of the* users of the system.
- Using *passwd* and *group* files obtained above, determine the list of all students which belong to the group called “*mtech06*”.

~ End ~