III Year II Semester

Code: 17CS611

UNIX PROGRAMMING LAB

OBJECTIVES:

- 1. To understand the design aspects of operating system.
- 2. To study the process management concepts & Techniques.
- 3. To study the storage management concepts.
- 4. To familiarize students with the Linux environment
- 5. To learn the fundamentals of shell scripting/programming
- 6. To familiarize students with basic Unix administration

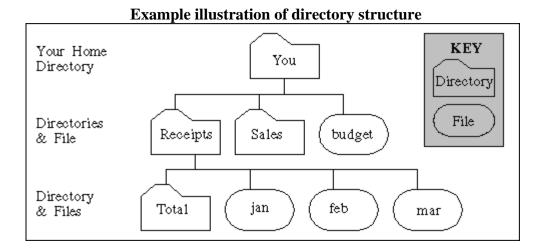
List of Experiments:

- 1. Basic Shell Commands Shell Programs:
- 2. Fibonacci Series
- 3. Designing Calculator
- 4. File Operations
- 5. Base conversion
- 6. Usage of cut and grep commands
- 7. Usage of user defined functions Administration
- 8. Managing User Accounts
- 9. User Quota Management
- 10. Installation of RPM software and Zipping, tar
- 11. Configuring RAID
- 12. Configuring Web server

PROJECTS:

Case Study Problem#1:

1. An user at a \$ prompt (default path) of Unix. He moved from one directory to another randomly. Now he is very much confused and he wants to set back his default user (You) directory.



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Problem#2:

1. Ram is user of Linux. And he is learning now *html* and web designing. He has written all of *html* code in different text files and kept them in a directory called *web project/*. But his friend reminded that all the files of web programs should be in *.html* extension. And all the files should be in lower case!!!

Now kindly help him to rename all *.txt* files to *.html* using single command. And also convert all filenames and extensions to lower case.

Problem#3:

Write a shell script to display Good Morning, Good After Noon and Good Evening according on the present time.

Problem#4:

Write shell script to print longest line and its length in a text file.

Problem#5:

If you had a directory full of images named IMG_0001.JPG, IMG_0002.JPG, etc., how would you do the following:

- i) Delete all of the images.
- ii) Delete all of the images from 0001 0009.
- iii) Delete all of the images with numbers less than 0100

OUTCOMES:

- To use Unix utilities and perform basic shell control of the utilities
- To use the Unix file system and file access control.
- To use of an operating system to develop software
- Work confidently in Unix/Linux environment
- Write shell scripts to automate various tasks
- Master the basics of Linux administration