CSELAB-2

- Study of Unix/Linux general purpose utility command list man, who, cat, cd, cp, ps, ls, mv, rm, mkdir, rmdir, echo, more, date, time, kill, history, chmod, chown, finger, pwd, cal, logout, shutdown.
- Study of vi editor.
- Study of Bashshell, Bourneshell and Cshell in Unix/Linux operating system.
- Study of Unix/Linux file system (tree structure).
- Study of .bashrc, /etc/bashrc and Environment variables.
- Write a C program that makes a copy of a file using standard I/O, and system calls
- Write a C program to emulate the UNIX ls–l command.
- Write a C program that illustrates how to execute two commands concurrently with a command pipe.
- Ex: -ls –l |sort
- Write a C program that illustrates two processes communicating using shared memory
- WriteaCprogramtosimulateproducerandconsumerproblemusingsemaphores
- Write C program to create a thread using threads library and let it run its function.
- Write a C program to illustrate concurrent execution of threads using pthreads library.Understanding and using of commands like if config, netstat, ping,arp, telnet, ftp, finger, Trace route, who is etc. Usage of elementarysocketsystemcalls(socket(),bind(),listen(),accept(),connect(),send(),recv(),send to(),recvfrom()).
- Implementation of Connection oriented concurrent service(TCP).
- Implementation of Connection less Iterative time service(UDP).
- Implementation of Select system call.
- Implementationofgesockopt(),setsockopt()systemcalls.
- Implementationofgetpeername()systemcall.
- Implementationofremotecommandexecutionusingsocketsystemcalls.