

LIST OF EXPERIMENTS:

1. Learn the use of basic UNIX commands.
2. Shell Programming.
3. Grep, sed, awk.
4. File system related system calls. (Learn to create, open, read, write, seek into, close files; open, read, write, search, close directories)
5. Process management – Fork, Exec (Learn to create a new process and to overlay an executable binary image on an existing process)
6. Inter-process communication between related processes using pipes.
7. Process synchronization using semaphores (Solutions to synchronization problems like producer consumer problem, dining philosophers' problem etc...)
8. Inter-process communication unrelated processes using Shared memory
9. Inter-process communication unrelated processes using Message Queues

TOTAL: 45

LABORATORY REQUIREMENTS FOR BATCH OF 30 STUDENTS

1. Linux server
2. Terminals for 30 students