BIT 382

NETWORK PROGRAMMING LAB

1. Understanding and using of commands like ifconfig, netstst, ping, arp, telnet, ftp, finger, traceroute, whois etc.
2. Implementation of concurrent and iterative echo server using both connection and connectionless socket system calls.
3. Implementation of time and day time services using connection oriented socket system calls.
4. Implementation of ping service
5. Build a web server using sockets.
6. Implementation of remote command execution using socket system calls.
7. Demonstrate the use of advanced socket system calls.
8. Demonstrate the non blocking I/O.
9. Implementation of concurrent chart server that allows current logged in users to communicate one with other.
10. Implementation of file access using RPC.
11. Build a concurrent multithreaded file transfer server using threads.
12. Implementation of DNS.

Suggested Reading:

1.Douglas E.Comer,Hands-on Networking with Internet Technologies,Pearson Education.
2. W. Richard Stevens, Unix Network Programming, Prentice Hall/Pearson Education,2009.