

## Assignment 6

Create a chat application involving one server and multiple clients.

### Part 1:

- 1) Use Socket Programming and TCP Protocol.
- 2) Configure your server in such a way that it can be connected to N different clients; one of which will be chosen as the “primary client”.
- 3) Any client who wishes to communicate with the server will send message to the primary client; who will then forward it to the server. (Clients other than primary one can only receive messages from server, but cannot send any.)

### Part 2:

- 4) Store multiple programs on server; involving various string operations.
  - 5) Upon any connection, server will present the entire list of functions to the client.
  - 6) Client should be able to choose one function from the above list and accordingly the server will take input arguments from the client and display relevant output.
- (Note: Here all the clients can communicate with the server directly.)