
Thapar Institute of Engineering and Technology, Patiala

Computer Science and Engineering
Network Programming Laboratory (UCS413)
Assignment:6

1. WAP for the implementation of handling multiple clients on single server using TCP socket programming in connection-oriented Scenario. Use **select()** to handle multiple clients.

Data structure used for select (): fd_set

Main highlights:

- Create a fd_set variable readfds, which will monitor all the active file descriptors of the clients plus that of the main server listening socket.
- Whenever a new client will connect, master_socket will be activated and a new fd will be open for that client. We will store its fd in our client_list and in the next iteration we will add it to the readfds to monitor for activity from this client.
- Similarly, if an old client sends some data, readfds will be activated and we will check from the list of existing clients to see which client has send the data.