***Assignment 5 : Peer to Peer Chat Application***

*Following instructions are useful :*

*make : To compile the code.*

*make clean : To remove the previously created object files.*

*make run : To execute the code. By directly running this command the code will get automatically compiled.*

*The zip includes following files :*

*chatp2p.cpp : Contains the source code of chat application*

*Makefile : To compile and run the chat application*

*user\_info.txt : Each line in this file contains the name, IP address and port number of the chat server running on peer machines in the following format.*

*<name to be used for sending messages> <IP Address> <Port No>*

*This file needs to be filled prior to running the chat application.*

*Report.docx : This file contains the documentation of the chat application.*

*Problem of closing the connection when the peer closes the connection :*

*We have used a CLOSE\_MESSAGE which is sent whenever a server wants to shut down. This message is sent to all peer networks so that they can also close the socket on their ends otherwise the peers would keep on recieving the fin message until the timeout on user side occurs.*

*User can send messages to a friend using following format:*

*<name>/<message>*

*User recieves message in the following format:*

*<name>\<message>*

*The macros like user server port number, number of users, message size (BUFSIZE) defined inside chatp2p.cpp itself.*