Assignment - 1

- Randomly two of the group members will be selected

- In machine-1, open two terminals, terminal-1-1, terminal-1-2

- In machine-2, open two terminals, terminal-2-1, terminal-2-2

- Start the UDP server program in
  - s1-udp at terminal-1-1,
  - s2-udp at terminal-2-1

- Start the UDP client program
  - c1-udp at terminal-1-2,
  - c2-udp at terminal-2-2

[P-1] Show the effects if you try to bind to different IP address OR to some reserved port. Report the error code returned by the bind call in both the cases. Print the error code in terminals.

MARKS 50

Assignment - 1

- Every terminal is now running one UDP client and one UDP server
- Start communication –
  - Send some data from machine 1 from machine 2 and print them appropriately in the other machine
- Open FIVE UDP servers but a single client in each of the machines

- **[P2]** Write a program to periodically send some data to each of the 5 UDP servers from a single UDP client. The client will have to know a priori the details of the UDP servers.
- Do this simultaneously from each of the clients at two different machines
- All the Five Servers should be showing the messages coming from the clients and their replies. Each message should be sent in a period of 2 second. Each message should have a sequence number 1, 2, 3 etc. The message should print the sequence number at both client and server and it should be visible in clearly while evaluation

- **MARKS 50**

Assignment-1

- **[P3]** Create two text files in each of the machines using some random text. The size of the file should be at least more than 5 MB. Send the file from one machine to another machine using UDP client and server.

  MARKS 50

- **[P4]** Create a folder in the machines with a combination of PDF and TEXT files. Transfer the complete folder from the client side to the serve side using UDP client-server program using a single program.

  MARKS 50