Program: **MutualServer.java**

import java.io.\*;

import java.net.\*;

public class MutualServer implements Runnable {

  Socket socket = null;

  static ServerSocket ss;

  MutualServer(Socket newSocket) {

    this.socket = newSocket;

  }

  public static void main(String args[]) throws IOException {

    ss = new ServerSocket(7000);

    System.out.println("||========|| MOIN MN  (211P030) ||========||");

    System.out.println("||========|| Server has Started ||========||");

    while (true) {

      Socket s = ss.accept();

      MutualServer es = new MutualServer(s);

      Thread t = new Thread(es);

      t.start();

    }

  }

  public void run() {

    try {

      BufferedReader in = new BufferedReader(new InputStreamReader(socket.getInputStream()));

      while (true) {

        System.out.println(in.readLine());

      }

    } catch (Exception e) {

    }

  }

}

Program: **ClientOne.java**

import java.io.\*;

import java.net.\*;

public class ClientOne {

  public static void main(String args[]) throws IOException {

    Socket s = new Socket("localhost", 7000);

    PrintStream out = new PrintStream(s.getOutputStream());

    ServerSocket ss = new ServerSocket(7001);

    Socket s1 = ss.accept();

    BufferedReader in1 = new BufferedReader(new InputStreamReader(s1.getInputStream()));

    PrintStream out1 = new PrintStream(s1.getOutputStream());

    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

    String str = "Token";

    while (true) {

      if (str.equalsIgnoreCase("Token")) {

        System.out.println("Do you want to send some data?\n Yes / No: ");

        str = br.readLine();

        if (str.equalsIgnoreCase("Yes")) {

          System.out.print("Enter the Data: ");

          str = br.readLine();

          out.println(str);

        }

        out1.println("Token");

      }

      System.out.println("Waiting for Token");

      str = in1.readLine();

    }

  }

}

Program: **ClientTwo.java**

import java.io.\*;

import java.net.\*;

public class ClientTwo {

  public static void main(String args[]) throws IOException {

    Socket s = new Socket("localhost", 7000);

    PrintStream out = new PrintStream(s.getOutputStream());

    Socket s2 = new Socket("localhost", 7001);

    BufferedReader in2 = new BufferedReader(new InputStreamReader(s2.getInputStream()));

    PrintStream out2 = new PrintStream(s2.getOutputStream());

    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

    String str;

    while (true) {

      System.out.println("Waiting for Token");

      str = in2.readLine();

      if (str.equalsIgnoreCase("Token")) {

        System.out.println("Do you want to send some data?");

        System.out.print("Yes / No: ");

        str = br.readLine();

        if (str.equalsIgnoreCase("Yes")) {

          System.out.print("Enter the Data: ");

          str = br.readLine();

          out.println(str);

        }

        out2.println("Token");

      }

    }

  }

}





