**Code**

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");

System.out.println("Enter Yes or No");

str = br.readLine();

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

System.out.println("Enter the data");

str = br.readLine();

out.println(str);

}

out1.println("Token");

}

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

str = in1.readLine();

}

}

}

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.println("Enter Yes or No");

str = br.readLine();

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

System.out.println("Enter the data");

str = br.readLine();

out.println(str);

}

out2.println("Token");

}

}

}

}

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("Server 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) {

}

}

}

**Output**











