Code :

import java.io.\*;

import java.net.\*;

public class serarq

{

public static void main(String[] args) throws Exception

{

ServerSocket sersock = new ServerSocket(3000);

System.out.println("Server ready for chatting");

Socket sock = sersock.accept( );

// reading from keyboard (keyRead object)

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

// sending to client (pwrite object)

OutputStream ostream = sock.getOutputStream();

PrintWriter pwrite = new PrintWriter(ostream, true);

// receiving from server ( receiveRead object)

InputStream istream = sock.getInputStream();

BufferedReader receiveRead = new BufferedReader(new InputStreamReader(istream));

String receiveMessage, sendMessage;

while(true)

{

//if((receiveMessage = receiveRead.readLine()) != null)

//{

// System.out.println(receiveMessage);

// }

sendMessage = keyRead.readLine();

int seq[] = new int [sendMessage.length()];

seq[0]=0;

for (int i = 1 ; i < sendMessage.length(); i++){

seq[i] = (seq[i-1] + 1 )%2;

}

char d [] = sendMessage.toCharArray();

System.out.println("Sending string \n"+sendMessage+"\n");

for(int i = 0 ; i < sendMessage.length(); i++)

{

String str = d[i] + Integer.toString(seq[i]);

int ack = (seq[i]+1)%2;

while (ack != seq[i]){

pwrite.println(str);

String data = receiveRead.readLine();

ack = data.charAt(0) - '0';

}

pwrite.flush();

}

}

}

}

/\*

import java.net.\*;

import java.io.\*;

class serarq{

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

try{

ServerSocket s = new ServerSocket(1234);

Socket skt = s.accept();

System.out.println("Server connected");

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

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

OutputStream ostream = skt.getOutputStream();

String data = br.readLine();

int seq[] = new int [data.length()];

seq[0]=0;

for (int i = 1 ; i < data.length(); i++){

seq[i] = (seq[i-1] + 1 )%2;

}

char d [] = data.toCharArray();

PrintWriter out = new PrintWriter(skt.getOutputStream(),true);

System.out.println("Sending string \n"+data+"\n");

for(int i = 0 ; i < data.length(); i++)

{

String str = d[i] + Integer.toString(seq[i]);

int ack = (seq[i]+1)%2;

while (ack != seq[i]){

ack =

out.print(str);

}

}

out.close();

skt.close();

s.close();

}

catch(Exception e){

System.out.println("whoops! didnot connect!\n");

}

}

}\*/

import java.io.\*;

import java.net.\*;

import java.util.\*;

public class cliarq

{

public static void main(String[] args) throws Exception

{

Socket sock = new Socket("127.0.0.1", 3000);

// reading from keyboard (keyRead object)

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

// sending to client (pwrite object)

OutputStream ostream = sock.getOutputStream();

PrintWriter pwrite = new PrintWriter(ostream, true);

// receiving from server ( receiveRead object)

InputStream istream = sock.getInputStream();

BufferedReader receiveRead = new BufferedReader(new InputStreamReader(istream));

System.out.println("Start the chitchat, type and press Enter key");

int ack = 0;

String receiveMessage, sendMessage;

while(true)

{

//sendMessage = keyRead.readLine(); // keyboard reading

//pwrite.println(sendMessage); // sending to server

//pwrite.flush(); // flush the data

receiveMessage = receiveRead.readLine();

//sendMessage = receiveMessage.charAt(1)+"";

sendMessage =Math.random()%2 + "";

System.out.println(receiveMessage);

pwrite.println(sendMessage);

pwrite.flush();

// displaying at DOS prompt

}

}

}

