**Q1Server.java**

package q1;

import java.net.\*;

import java.io.\*;

import java.util.\*;

public class Q1Server{

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

System.out.println("Enter socket number ");

@SuppressWarnings("resource")

Scanner sc= new Scanner(System.in);

int port= sc.nextInt();

ServerSocket ss=new ServerSocket(port);

Socket s=ss.accept();

DataInputStream din=new DataInputStream(s.getInputStream());

DataOutputStream dout=new DataOutputStream(s.getOutputStream());

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

String str="",str2="";

while(!str.equals("stop")){

str=din.readUTF();

System.out.println("client says: "+str);

str2=br.readLine();

dout.writeUTF(str2);

dout.flush();

}

din.close();

s.close();

ss.close();

}

}

**Q1Client.java**

package q1;

import java.net.\*;

import java.util.Scanner;

import java.io.\*;

public class Q1Client{

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

System.out.println("Enter socket number ");

@SuppressWarnings("resource")

Scanner sc= new Scanner(System.in);

int port= sc.nextInt();

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

DataInputStream din=new DataInputStream(s.getInputStream());

DataOutputStream dout=new DataOutputStream(s.getOutputStream());

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

String str="",str2="";

while(!str.equals("stop")){

str=br.readLine();

dout.writeUTF(str);

dout.flush();

str2=din.readUTF();

System.out.println("Server says: "+str2);

}

dout.close();

s.close();

}

}