

Program: DatagramServer.java

```

import java.io.*;
import java.net.*;

class DatagramServer {
    public static DatagramSocket serversocket;
    public static DatagramPacket dp;
    public static BufferedReader dis;
    public static InetAddress ia;
    public static byte buf[] = new byte[1024];
    public static int cport = 789, sport = 790;

    public static void main(String[] a) throws IOException {
        serversocket = new DatagramSocket(sport);
        dp = new DatagramPacket(buf, buf.length);
        dis = new BufferedReader(new InputStreamReader(System.in));
        ia = InetAddress.getLocalHost();
        System.out.println("Server is Running...");
        while (true) {
            serversocket.receive(dp);
            String str = new String(dp.getData(), 0, dp.getLength());
            if (str.equals("STOP")) {
                System.out.println("Terminated...");
                break;
            }
            System.out.println("Client: " + str);
            String str1 = new String(dis.readLine());
            buf = str1.getBytes();
            serversocket.send(new DatagramPacket(buf, str1.length(), ia, cport));
        }
    }
}

```

Program: DatagramClient.java

```

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;

class DatagramClient {
    public static DatagramSocket clientsocket;
    public static DatagramPacket dp;
    public static BufferedReader dis;
    public static InetAddress ia;
    public static byte buf[] = new byte[1024];
    public static int cport = 789, sport = 790;

    public static void main(String[] a) throws IOException {
        clientsocket = new DatagramSocket(cport);
        dp = new DatagramPacket(buf, buf.length);
        dis = new BufferedReader(new InputStreamReader(System.in));
        ia = InetAddress.getLocalHost();
        System.out.println("Client is Running... Type stop to Quit");
        while (true) {
            String str = new String(dis.readLine());
            buf = str.getBytes();
            if (str.equals("STOP")) {

```

```

        System.out.println("Terminated...");
        clientsocket.send(new DatagramPacket(buf, str.length(), ia, sport));
        break;
    }
    clientsocket.send(new DatagramPacket(buf, str.length(), ia, sport));
    clientsocket.receive(dp);
    String str2 = new String(dp.getData(), 0, dp.getLength()); // convert to
string
    System.out.println("Server: " + str2);
}
}
}

```

```

PS C:\Users\Moin MN\Downloads> java DatagramClient.java
Client is Running... Type stop to Quit
Hii!
Server: Hello
I am Moin MN from BE Comps
Server: Hii, Moin MN! Where are you from?
I am from chiplun, ratnagiri.
Server: Wow great city.
STOP
Terminated...
PS C:\Users\Moin MN\Downloads> |

```

```

PS C:\Users\Moin MN\Downloads> javac *.java
PS C:\Users\Moin MN\Downloads> java DatagramServer.java
Server is Running...
Client: Hii!
Hello
Client: I am Moin MN from BE Comps
Hii, Moin MN! Where are you from?
Client: I am from chiplun, ratnagiri.
Wow great city.
Terminated...
PS C:\Users\Moin MN\Downloads>

```