DatagramServer.java

*//Source code java programming Datagram Chat Server*

*// Write a program to demonstrate Datagram Socket for a chat application using 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 = 1025,sport=5000;

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**("Name:Vishal Yadav, UIN:211P042");

**System**.out.**println**("Server is Running...");

while(true)

{

serversocket.**receive**(dp);

**String** str = new **String**(dp.**getData**(), 0,dp.**getLength**()); *// convert to string*

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));

}

}

}

DatagramClient.java

*// Source code java programming Datagram Chat Client*

import **java**.**io**.\*;

import **java**.**net**.\*;

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 = 1025, sport = 5000;

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);

}

}

}

