**UDPServer.java :-**

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

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

**public** **class** UDPServer

{

**public** **static** DatagramSocket *ss*;

**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[] args) **throws** Exception

{

*ss*=**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**)

{

*ss*.receive(*dp*);

String str=**new** String(*dp*.getData(),0,*dp*.getLength());

**if**(str.equalsIgnoreCase("STOP"))

{

System.***out***.println("Terminated...");

**break**;

}

System.***out***.println("Client : "+str);

String str1=**new** String(*dis*.readLine());

*buf*=str1.getBytes();

*ss*.send(**new** DatagramPacket(*buf*,str1.length(),*ia*,*cport*));

}

}

}

**UDPClient.java :-**

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

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

**public** **class** UDPClient

{

**public** **static** DatagramSocket *cs*;

**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[] args) **throws** Exception

{

*cs*=**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.equalsIgnoreCase("STOP"))

{

System.***out***.println("Terminated...");

*cs*.send(**new** DatagramPacket(*buf*,str.length(),*ia*,*sport*));

**break**;

}

*cs*.send(**new** DatagramPacket(*buf*,str.length(),*ia*,*sport*));

*cs*.receive(*dp*);

String str2=**new** String(*dp*.getData(),0,*dp*.getLength());

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

}

}

}

**Server Output :-**

C:\Users\Administrator\eclipse-workspace\UDPP2PChat\src>java UDPServer

Server is running...

Client : Hi

Hello

Client : How are you?

Fine

Terminated...

**Client Output :-**

C:\Users\Administrator\eclipse-workspace\UDPP2PChat\src>java UDPClient

Client is running... Type 'Stop' to quit

Hi

Server : Hello

How are you?

Server : Fine

Stop

Terminated...