

## OBJECT-9

**Program using UDP socket UDP Chat Server/Client.****udpChatServer.java**

```
import java.io.*;
import java.net.*;
class udpChatServer
{
    public static int clientport=8040 ,serverport=8050;
    public static void main(String args[ ] ) throws Exception
    {
        DatagramSocket SrvSoc=new DatagramSocket(clientport);
        byte[ ] SData= new byte[1024];
        BufferedReader br =new BufferedReader(new
InputStreamReader(System.in));
        System.out.println("Server Ready");
        while(true)
        {
            byte[ ] RData= new byte[1024];
            DatagramPacket RPack=new
DatagramPacket(RData,RData.length);
            SrvSoc.receive(RPack);
            String Text= new String(RPack.getData());
            if (Text.trim().length()==0)
                break;
            System.out.println("from client<<"+Text);
            System.out.println("Msg to client:");
            String srvmsg =br.readLine();
            InetAddress IPAddr=RPack.getAddress();
            SData=srvmsg.getBytes();
            DatagramPacket SPack=new
DatagramPacket(SData,SData.length,IPAddr,serverport);
            SrvSoc.send(SPack);
        }
        System.out.println("\n Client Quits\n");
        SrvSoc.close();
    }
}
```

## udpChatClient.java

```
import java.io.*;
import java.net.*;
class udpChatClient
{
    public static int clientport=8040 ,serverport=8050;
    public static void main(String args[ ] ) throws Exception
    {
        BufferedReader br = new BufferedReader(new InputStreamReader
(System.in));
        DatagramSocket CliSoc = new DatagramSocket(serverport);
        InetAddress IPAddr;
        String Text;
        if(args.length==0)
            IPAddr = InetAddress.getLocalHost();
        else
            IPAddr = InetAddress.getByName(args[0]);
        byte[] SData = new byte[1024];
        System.out.println("Press Enter without text to quit");
        while(true)
        {
            System.out.println("/n Enter text for server:");
            Text = br.readLine();
            SData = Text.getBytes();
            DatagramPacket SPack = new
DatagramPacket(SData,SData.length,IPAddr,clientport);
            CliSoc.send(SPack);
            if(Text.trim().length() == 0)
                break;
            byte[] RData = new byte[1024];

            DatagramPacket RPack = new DatagramPacket(RData,RData.length);
            CliSoc.receive(RPack);
            String Echo = new String(RPack.getData());
            Echo = Echo.trim();
            System.out.println("From Server<<" +Echo);
        }
        CliSoc.close();
    }
}
```

<pre>Administrator: Command Prompt - java udpChatServer F:\&gt;cd Computer Network F:\Computer Network&gt;cd lab7 F:\Computer Network\lab7&gt;javac udpChatServer.java F:\Computer Network\lab7&gt;java udpChatServer Server Ready  from client&lt;&lt;hii abhi  Msg to client: how are you</pre>	<pre>Administrator: Command Prompt - java udpChatClient Microsoft Windows [Version 10.0.17763.379] (c) 2018 Microsoft Corporation. All rights reserved.  C:\WINDOWS\system32&gt;F: F:\&gt;cd Computer Network F:\Computer Network&gt;cd lab7 F:\Computer Network\lab7&gt;javac udpChatClient.java F:\Computer Network\lab7&gt;java udpChatClient Press Enter without text to quit /n Enter text for server: hii abhi From Server&lt;&lt;how are you /n Enter text for server:</pre>
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