```
// Client server program using tcp where client sends 2 numbers and server respond sum of them
import java.util.*;
import java.net.*;
import java.io.*;
public class SumTcpClient {
       public static void main(String[] args) throws Exception {
              Scanner sc = new Scanner(System.in);
              // include Socket class
              Socket s = new Socket("localhost",3333);
              //make object of datainput Stream and dataoutputstream
              DataInputStream dis = new DataInputStream(s.getInputStream()); // read primitive
data
              DataOutputStream dos = new DataOutputStream(s.getOutputStream()); // write " "
              String str = "";
              String str2 = "";
              while(!str.equals("stop")) {
                      str = sc.nextLine();
                      dos.writeUTF(str);
                      dos.flush();
                      str2 = dis.readUTF();
                      System.out.println("Server says=" + str2);
              dos.close();
              s.close();
       }
}
//Sum TCP Server
import java.util.*;
import java.net.*;
import java.io.*;
public class SumTcpServer {
       public static void main(String[] args) throws Exception {
              ServerSocket ss = new ServerSocket(3333);
              Socket s = new Socket();
              DataInputStream dis = new DataInputStream(s.getInputStream()); // read primitive
data
              DataOutputStream dos = new DataOutputStream(s.getOutputStream()); // write " "
              Scanner sc = new Scanner(System.in);
              String str = "",str2 = "";
              while(!str.equals("stop")){
                      str=dis.readUTF();
                      System.out.println("Client says= " + str);
```

```
str2 = sc.nextLine();
                     dos.writeUTF(str2);
                     dos.flush();
              dis.close();
              s.close();
              ss.close();
       }
}
//Tcp.client
import java.util.*;
import java.net.*;
import java.io.*;
public class TcpClient {
       public static void main(String args[])throws Exception{
              Socket s=new Socket("localhost",3333);
              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();
       }
}
//TCP Server
import java.util.*;
import java.net.*;
import java.io.*;
public class TcpServer {
              public static void main(String args[])throws Exception{
                     ServerSocket ss=new ServerSocket(3333);
                     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();
              }
}
//UDP Client
import java.util.*;
import java.net.*;
import java.io.*;
public class UdpClient {
       public static void main(String[] args)throws Exception{
                      DatagramSocket ds=new DatagramSocket();
                      String str = "Hi server!";
                      InetAddress ip =InetAddress.getByName("127.0.0.1");
                      DatagramPacket dp = new
DatagramPacket(str.getBytes(),str.length(),ip,3000);
                      ds.send(dp);
                      ds.close();
              }
       }
//UDP Server
import java.util.*;
import java.net.*;
import java.io.*;
public class UdpServer {
       public static void main(String[] args)throws Exception {
                      DatagramSocket ds = new DatagramSocket(3000);
                      byte[] buf = new byte[1024];
                      DatagramPacket dp = new DatagramPacket(buf, 1024);
                      ds.receive(dp);
                      String str = new String(dp.getData(), 0,dp.getLength());
                      System.out.println(str);
                      ds.close();
              }
       }
```