Echoclient.java

```
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;
import java.util.Scanner;
public class Echoclient {
  public static void main(String[] args) {
    try {
       DatagramSocket socket = new DatagramSocket(); // Create a DatagramSocket
       Scanner scanner = new Scanner(System.in);
       System.out.print("Enter message to send to server: ");
       String message = scanner.nextLine();
       byte[] sendData = message.getBytes(); // Convert the message to bytes
       InetAddress serverAddress = InetAddress.getByName("localhost"); // Server address
       int serverPort = 9876; // Server port
       // Create a DatagramPacket to send to the server
       DatagramPacket sendPacket = new DatagramPacket(sendData, sendData.length,
serverAddress, serverPort);
       socket.send(sendPacket); // Send the packet to the server
       // Receive the echoed message from the server
       byte[] receiveData = new byte[1024];
       DatagramPacket receivePacket = new DatagramPacket(receiveData,
receiveData.length);
       socket.receive(receivePacket);
       String echoedMessage = new String(receivePacket.getData(), 0,
receivePacket.getLength());
       System.out.println("Received from server: " + echoedMessage);
       // Close the socket
       socket.close();
    } catch (Exception e) {
       e.printStackTrace();
  }
}
```

Echoserver.java

```
import java.net.DatagramPacket;
import java.net.DatagramSocket;
public class Echoserver {
  public static void main(String[] args) {
       DatagramSocket socket = new DatagramSocket(9876); // Create a
DatagramSocket on port 9876
       while (true) {
         byte[] receiveData = new byte[1024]; // Buffer to receive data
         DatagramPacket receivePacket = new DatagramPacket(receiveData,
receiveData.length);
         socket.receive(receivePacket); // Receive data from the client
         String message = new String(receivePacket.getData(), 0,
receivePacket.getLength());
         System.out.println("Received from client: " + message);
         // Echo back to the client
         DatagramPacket sendPacket = new
DatagramPacket(receivePacket.getData(), receivePacket.getLength(),
              receivePacket.getAddress(), receivePacket.getPort());
         socket.send(sendPacket);
       }
    } catch (Exception e) {
       e.printStackTrace();
    }
}
```

Client O/P

Enter message to send to server: Hello, this is a test message from the client! Received from server: Hello, this is a test message from the client!

Server O/P

Received from client: Hello, this is a test message from the client!