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import java.io.*;
import java.net.*;
import javax.swing.*;
public class EchoServer extends JFrame {
 private JTextArea textArea;
 public EchoServer() {
  super("Echo Server");
  textArea = new JTextArea();
  add(new JScrollPane(textArea));
  setSize(400, 300);
  setVisible(true);
}
 public void startServer() {
  try {
   // Create a server socket
   ServerSocket serverSocket = new ServerSocket(8000);
   textArea.append("Server started at " + new java.util.Date() + '\n');
   // Create a socket for each connection and start a new thread
   while (true) {
    Socket socket = serverSocket.accept();
    textArea.append("New client accepted at " + new java.util.Date() + '\n');
    ClientThread thread = new ClientThread(socket);
    thread.start();
   }
```

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}
 catch(IOException ex) {
  ex.printStackTrace();
 }
}
public static void main(String[] args) {
 EchoServer server = new EchoServer();
 server.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
 server.startServer();
}
// Inner class for the client thread
class ClientThread extends Thread {
 private Socket socket;
 private DataInputStream inputFromClient;
 private DataOutputStream outputToClient;
 public ClientThread(Socket socket) {
  this.socket = socket;
  try {
   // Create data input and output streams
   inputFromClient = new DataInputStream(
    socket.getInputStream());
   outputToClient = new DataOutputStream(
    socket.getOutputStream());
  }
  catch(IOException ex) {
   ex.printStackTrace();
  }
 }
```

```
public void run() {
   try {
    while (true) {
     // Receive message from the client
     String message = inputFromClient.readUTF();
     // Send the message back to the client
     outputToClient.writeUTF(message);
     // Display to the text area
     textArea.append(message + '\n');
    }
   }
   catch(IOException ex) {
    ex.printStackTrace();
   }
  }
}
}
```