## Vincent Thai CS380

**GITHUB LINK:** https://github.com/vincentthai22/CS380-EX1

```
/**

* VINCENT THAI

* CS 380

* EchoServer.JAVA

* PROFESSOR DAVARPANAH

* SPRING 2017

*/
```

import java.io.BufferedReader; import java.io.InputStreamReader; import java.io.OutputStream; import java.io.PrintStream; import java.net.BindException; import java.net.ServerSocket; import java.net.Socket; import java.net.SocketException; import java.util.Scanner;

public final class EchoServer {

```
public static void main(String[] args) throws Exception {
   String inputLine, address="";
   try (ServerSocket serverSocket = new ServerSocket(22222)) {
     while (true) {
        try (Socket socket = serverSocket.accept()) {
          address = socket.getInetAddress().getHostAddress();
          System.out.printf("Client connected: %s%n", address);
          OutputStream os = socket.getOutputStream();
          PrintStream out = new PrintStream(os, true, "UTF-8");
          out.printf("Hi %s, thanks for connecting!%n", address);
          BufferedReader in = new BufferedReader(new InputStreamReader(socket.getInputStream(), "UTF-8"));
          while((inputLine = in.readLine()) != null){
            if(inputLine.equals("exit"))
              throw new SocketException();
            out.println("Server> " + inputLine);
   } catch (SocketException e){
     System.out.printf("Client disconnected: %s%n", address);
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```

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*/
import java.io.*;
import java.net.Socket;
import java.net.SocketException;
public final class EchoClient {
  public static void main(String[] args) throws Exception {
    String temp="";
    try (Socket socket = new Socket("localhost", 22222)) {
      InputStream is = socket.getInputStream();
      InputStreamReader isr = new InputStreamReader(is, "UTF-8");
      BufferedReader br = new BufferedReader(isr);
      BufferedReader stdIn = new BufferedReader(new InputStreamReader(System.in));
      OutputStream os = socket.getOutputStream();
      PrintStream out = new PrintStream(os, true, "UTF-8");
      System.out.println("Server> " + br.readLine());
      while(true) {
        System.out.print("Client>");
        temp = stdIn.readLine();
        out.println(temp);
        if(temp.toLowerCase().trim().equals("exit")) break;
        System.out.println(br.readLine());
      isr.close();
      br.close();
```

```
socket.close();
}
}
```

```
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           System.out.printf("Client connected: %s%n", address);
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           BufferedReader in = new BufferedReader(new InputStreamReader(socket.getInputStream(), "UTF-8"));
           while((inputLine = in.readLine()) != null){
             if(inputLine.equals("exit"))
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             out.println("Server> " + inputLine);
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System.out.printf("Client disconnected: %s%n", address);
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import java.net.Socket;
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      InputStream is = socket.getInputStream();
      InputStreamReader isr = new InputStreamReader(is, "UTF-8");
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      OutputStream os = socket.getOutputStream();
      PrintStream out = new PrintStream(os, true, "UTF-8");
      System.out.println("Server> " + br.readLine());
      while(true) {
        System.out.print("Client>");
```

```
temp = stdIn.readLine();
    out.println(temp);
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}
isr.close();
br.close();
socket.close();
}
}
```