

Assignment 14

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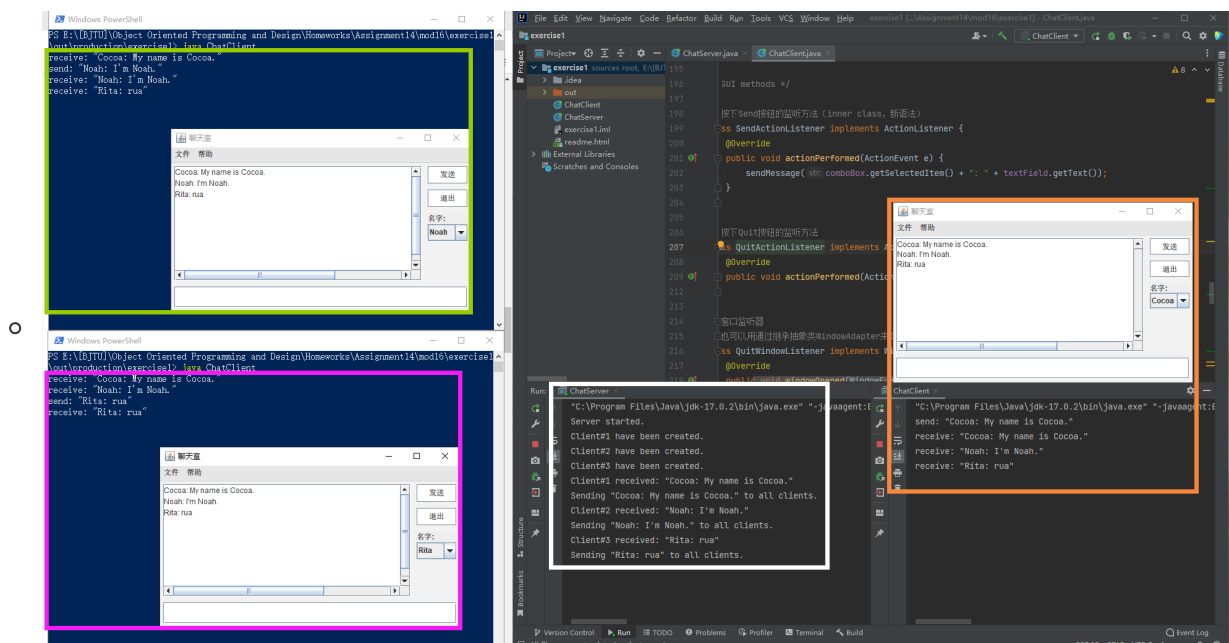
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格式相关

- 文档提供 markdown、pdf 和 html 格式
 - 推荐使用 html 格式
- 文件夹 README 下存放 运行结果截图
- 其他文件夹存放 代码

Mod16 Ex1

- 思路
 - 服务端用 ArrayList 来管理所有客户端。
 - 接收到来自一个客户端的信息后，将信息转发至所有客户端（包括信息来源客户端，这样可以确保所有客户端信息顺序一致）
- 遇到的问题
 - 服务端和客户端的输入输出流，如果一方使用 readLine() 方法读入，那么另一方的所有输出都要保证在末尾存在换行符，否则输入会卡住。
 - 注：readLine() 读入时不带换行符。
 - Socket、输入流、输出流，三者任意关闭一个，均会导致其他两者被关闭。 [参考资料](#)
- 运行结果（三客户端）



- 运行结果（退出客户端）

```
Run: ChatServer x "C:\Program Files\Java\jdk-17.0.2\bin\java.exe" "-javaagent:
Server started.
Client#1 have been created.
Client#2 have been created.
Client#3 have been created.
Client#1 received: "Cocoa: My name is Cocoa."
Sending "Cocoa: My name is Cocoa." to all clients.
Client#2 received: "Noah: I'm Noah."
Sending "Noah: I'm Noah." to all clients.
Client#3 received: "Rita: rua"
Sending "Rita: rua" to all clients.
Client#2 is closing.
Client#3 is closing.
Client#1 is closing.

ChatClient x "C:\Program Files\Java\jdk-17.0.2\bin\java.exe" "-javaagent:
send: "Cocoa: My name is Cocoa."
receive: "Cocoa: My name is Cocoa."
receive: "Noah: I'm Noah."
receive: "Rita: rua"
exiting
Client closed.

Process finished with exit code 0
```

Network

- 运行结果

```
Product System

Please input the number of string lines to get from server:  

get 2 lines from server.
This is a test1 ## This is a test2 ##
get 4 lines from server.
This is a test3 ## This is a test4 ## This is a test5 ## This is a test6 ##
get 5 lines from server.
This is a test7 ## This is a test8 ## This is a test9 ## This is a test10 ## No more lines ##
can not take lines anymore
```