**MiniRSA**

**WHAT IS IT?**

This program is a mini chat application using RSA cryptosystem. It consists of 3 parts: RSA cryptosystem, terminal version of server and client, GUI version of chat program.

-Terminal version asks for user input information to calculate both public and private key, set up connection between server and client and allows users chat with each other.

-GUI version generates user interface when program starts and allows visualized operations by user.

**Documentation**

**How to use it?**

**Terminal Version**:

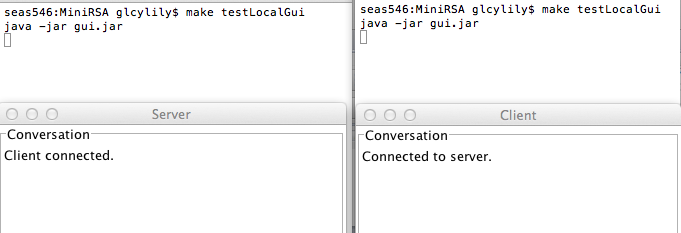
**Sample Run:**

1.  ***make build***  (prepares all the jar files needed)

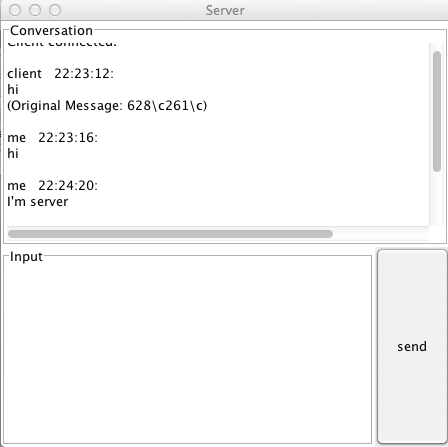


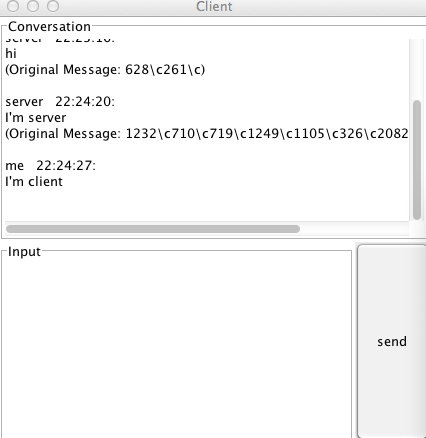
2. To test both end of GUI on local host:

In our GUI version, there is no difference between server and client. User can simply open two terminals and input command line twice: ***make testLocalGui.*** The one runs first would automatically be the server and latter one would be client.



GUI:





3. To test remote chatting:

For one end, ***java –jar gui.jar <ipaddress> <port>***

For the other end, ***java –jar gui.jar <ipaddress> <port>***

The port number should be the same

4. To test terminal version: