Course: ENSF 607 – Fall 2020

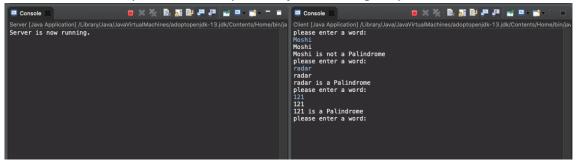
Lab#: 06

Student Name: Nathan Jack

Due Date: November 9th, 2020

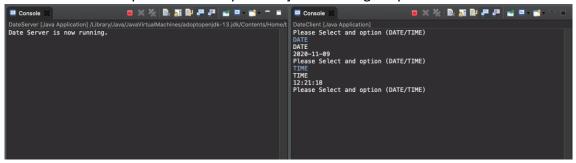
Exercise 1:

See below for example console output. See java files in git repo for details.



Exercise 2:

See below for example console output. See java files in git repo for details.



Exercise 3:

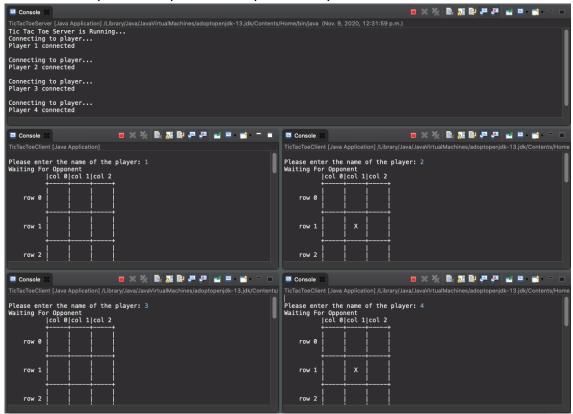
See below for example console output. See java files in git repo for details. Write Record output:

```
cterminated> WriteRecord [Java Application] /Library/Java/JavaVirtualMac 1999 I have a dream ABBA 23.5 2012 Dream On Aerosmith 12.0 2008 Grace like rain Todd Agnew 6.7 1999 Old soul Thea Gilmor 4.5 1999 Rolling in the deep Adele 11.98 1999 I see stars Cindy Alxander 23.5 2000 I am Eighteen Alice Cooper 14.5
```

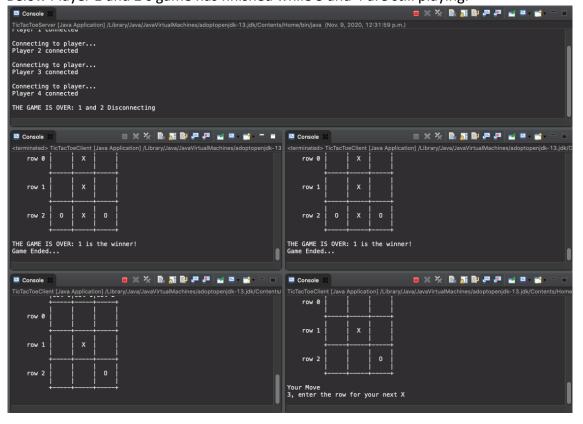
Read Record output Using mySongs.ser and AllSongs.ser:

Exercise 4/5:

See below for example console output. See java files in git repo for details. Games are Player 1 vs Player 2 and Player 3 vs Player 4.

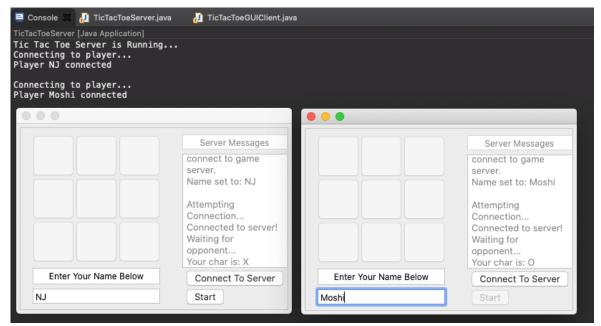


Below Player 1 and 2's game has finished while 3 and 4 are still playing.

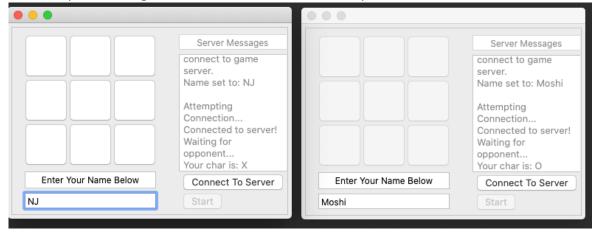


For the GUI example the same server can be used and instead a TicTacToeGUI Client is launched. In an ideal world where I had more time to work on this, the client would work for both display types, and it would implement a GUI or a Console output class interface on user choice. For now there are two separate clients.

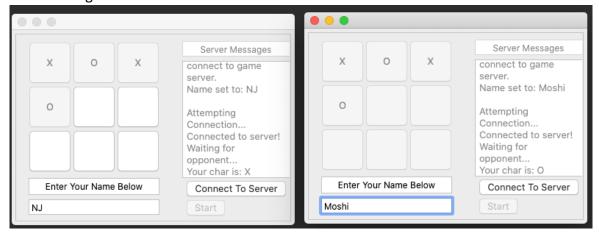
NOTE: The GUI I created uses an eclipse SWT resource manager. This package can be found in the git repo for this lab. You should be able to run this GUI without specifying a class path for the SWT Composite components. If for some reason the GUI will not launch and the errors are specific to the GUI constructor, please follow the link below to update your build settings to include the proper class path. https://www.oreilly.com/library/view/eclipse-cookbook/0596007108/ch08s04.html



GUIs may be launched before the server is live. Attempts to connect are met with a server error message in the server message window. After connecting to the server, the X player is given the option to start the game. At which point their game board enables and allows input.



Every time a tile is selected it is disabled from play on the other players screen. When it is not a player's turn their entire grid is disabled.



Finally, when a winning move is played a message is displayed to both players and both boards are disabled. Sockets are closed when the GUI is exited.

