README

The program was written entirely in Java. The full source code can be opened as an existing project via Eclipse.

Summary: Pub-Sub application, Server side with log files, and Client side program to chat via multiple topics.

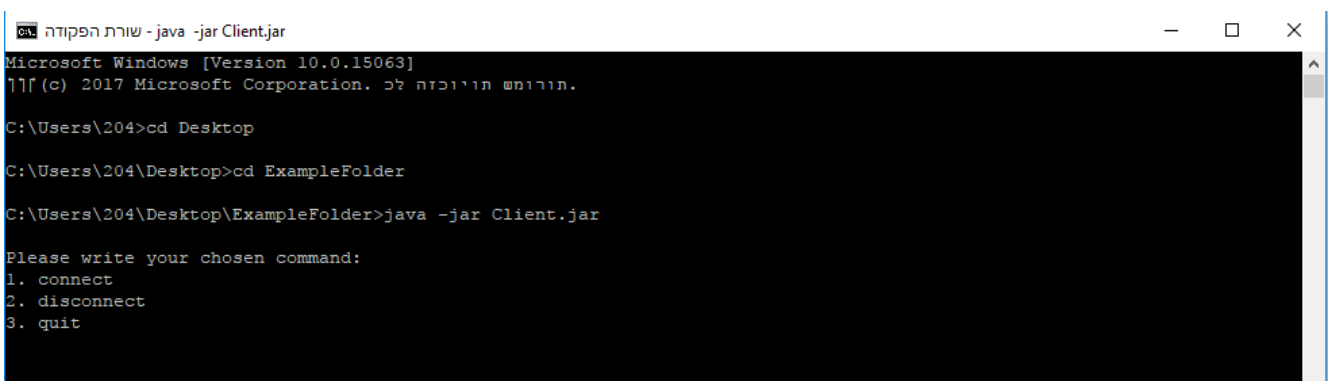## Client config file instructions:

- The config file should be in the same folder as the jar file. The file contains the IP and Port of the server.
  - Any free port can be chosen to talk with the server, occupied ports will cause exception.
- The CMD should be routed to the configuration file destination, because the program is reading the config file from the CMDs dir. (save yourself the trouble)

Client Instructions:

- Extract the jar (Client.jar) and config (configuration.txt) files to the same folder.
- Open the CMD and route to the extracted folder (saves problems with config destination). (e.g. C:\>cd C:\Example_folder\Client_folder)
- Run the client jar file:
  C:\example_folder\client_folder> java –jar Client.jar

From here on the client program is working. Follow the instructions inside:
connect – to connect, disconnect – to disconnect, quit – to terminate program.

After running the jar the program should work:
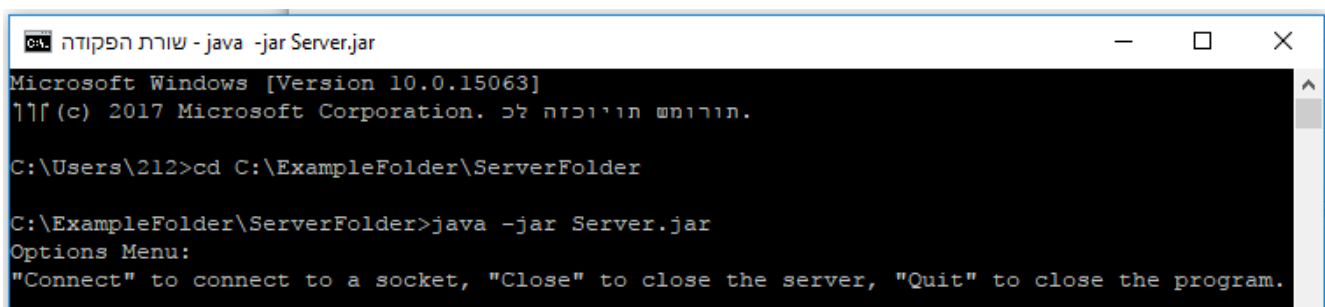
Server config file instructions:

- The jar and config files should be in the same folder. The configuration file contains the port that the Server will be listening to.
  - Any free port can be chosen to talk with the server, occupied ports will cause exception.
- The CMD should be routed to the configuration file destination, because the program is reading the config file from the CMDs dir. (save yourself the trouble)

Server Instructions:

- Extract the jar (Server.jar) and the config (configuration.txt) files to the same folder.
- Open the CMD and route to the extracted folder.
  (e.g. C:\>cd C:\example_folder\server_folder)
- Run the jar file: C:\example_folder\server_folder> java –jar Server.jar
- Follow instructions of the program:
  connect – to connect, close – to disconnect, quit – terminate server program.

Servers Log file

While the server works, a "Log.txt" file will be generated in the same folder of the server. (e.g. C:\example_folder\server_folder\Log.txt).

The Log.txt file will contain the server logs with the clients. (Do not open with normal windows "Notepad" as it does not recognize "new line" characters. Notepad++ advised).