CPSC441 Assignment 2 User Manual - use a combination of TCP and UDP data transfer services to implement client-server programs (in Java) that provide different services to users.

Files:

- Master.java
- Client.java
- Echo.java   * (does not make any change, returns the same string)
- Reverse.java   * (reverses all characters)
- Lower.java   * (makes all characters lowercase)
- Upper.java   * (makes all characters uppercase)
- Caesar.java   * (applies a Caesar shift of 2)
- Yours.java   * (simply adds "Ahoi!" to the beginning of every string, as one pirate might speak!)

* = microserver

To run:

1. have all files in a directory, then compile with "javac *.java"
2. run the six microservers first with "java ****", where **** represents the name of the microserver (i.e. Echo, Reverse, Lower, Upper, Caesar, Yours)
3. run the master server with "java Master" – it will be listening on the localhost IP address and port 8080.
4. run client side with "java Client x.x.x.x 8080", where x.x.x.x represents the IP address that is running the master server code.
5. Use the user interface accordingly.

Disclaimer: There are no known bugs as far as I know, at the time of writing this report.

The application runs as intended, outputs are as required.

There is a 10 second timeout period set for the microservers.

This program has not been checked for security flaws or with very big inputs.

Bonus: Not attempted