School of Computing

Bachelor of Science in Computing.
Programme Code: DT211/3
2012 – 2016
Networking Programming

Student Name: Christopher Mahon
Assignment Number: 2
Assignment Title: Client-Server
Date Due For Return: 6/3/2015

Specification

Design (25%), Document (25%), Build (25%) and Test (25%): Four socket applications to work with the skeleton SimpleCServer.c example

SimpleCServer.c implements a server, but without comments in the code and without any error checking.

You must
Complete the SimpleCServer example to a suitable standard. This includes fully commenting the code and making it robust by having it handle all foreseeable error conditions.
Build a client SimpleCClient.c to work with SimpleCServer.
Build a client SimpleJavaClient to work with SimpleCServer. This should behave in exactly the same way as SimpleCClient.
Build a server SimpleJavaServer to work with both SimpleCClient and SimpleJavaClient above. This should work in exactly the same way as SimpleCServer.

Link to Github

https://github.com/Chris-Mahon/DT211-3-NP-CA-2

Program Capabilities

SimpleCServer.c: This program should allow a connection on the port supplied in the command line, receive data from a client, and then retransmit the data to the client as way of confirming the data was sent correctly. Should be completely error checked.

SimpleJavaServer.java: This program should have identical functionality as the C server, but written in Java.

SimpleCClient.c: This program should be able to connect to a server at the ip address and port supplied in the command line, prompt the user to input a message, and then transmit that message to the server.

SimpleJavaClient.java: This program should have identical functionality to the C client, but written in Java.