LAB 1 – Socket Programming: Calculator

**Overview**

Objective is to implement a calculator using socket programming.

**Steps**

Client file:

1) Open the socket connection

2) IP and OP streams used to make it machine dependent

3) Use readUTF and writeUTF to receive and send the message

4) Close the connection

Server file:

1. Establish a socket connection.
2. Process the equations coming from client
3. In server side also we open both the inputStream and outputStream.
4. After receiving the equation, we process it and returns the result back to client by writing on the outputStream of the socket.
5. Close the connection.

**Key Commands**

socket – create unbound socket in communications domain

server.sin\_addr – IP address in the socket

connect - used by the client application to establish a connection to a server

send – sends data

recv - receives data

listen - marks the socket referred to by sockfd as a passive socket,

**References**

https://www.geeksforgeeks.org/simple-calculator-using-tcp-java/