

Task Description

You are the architect for Remote Control Co. and are tasked to create a new high volume client-server, network-based application that has a client component and a server component. The functional requirements are:

- 1) The client will be the 'Remote Control'.
- 2) The server will receive requests from various clients and will print to the 'server.log' file the sender name, the command and the time when it was submitted.

The assignment:

Create a client application that takes as a parameter the customer name and displays the following command options: 'Say Hello', 'Say goodbye', 'Sum <a>, , ...'.

Create the corresponding server component to handle the commands and return the correct response according to the following rules:

Command	Response from server
'Say Hello'	Hello <customer name>
'Say goodbye'	Bye <customer name>
'Sum <a>, , ...'	Returns the sum of the n numbers provided

Use any network technology you like. The code must be in **pure Java SE**. No third party frameworks are allowed. First we'll test if the application works as expected. Then we'll assess the code and object oriented design.

The interpretation and any lacking piece of information is part of the assessment. We expect a deliverable to meet the above requirements. Use the best industry practices to develop the code.

You're not required to include unit tests although you are free to do so if you wish. In addition to the source code, you must provide a README.txt file along with one single executable JAR that can run as server or as client.