

1 Protocol

a) All required messages:

Client:

- Username
- "1" for Addition
- "2" for Subtraction
- "3" for Multiplication
- "4" for Factorial
- 1. Operand
- 2. Operand (is 0 for Factorial)

Server:

- Login succesful?
- Result

b) format of messages

- Username : String - only sends one string to the server
- Service data : [Operation : Int, Operand1 : Int, Operand2 : Int] - on the client side an array of length 3 represents the data for the service. At index 0 is the operation, at index 1 is the first operand and at index 2 is the second operand. Tue to the table of operations

1	Addition
2	Subtraction
3	Multiplication
4	Factorial

client and server know which integer indicates which operation.
- Login successful : boolean - tells the client if the login was successfully.
- Result : Int - the result of the operation is always one singe integer.



