

Homework Assignment #4

By using “TCP” as a default transport layer protocol, write a Python program for server and client communication under the following protocol.

Protocol:

Once a client sends specific string commands, the server could promptly responses with the specific output as follows:

- Client sends “**LocalTime**”, the server will response with the current local time (e.g. “9:27 AM”).
- Client requests for **X,Y,#** (“X” and “Y” are integer numbers, “#” is the math operator “+” or “-”), the server will response with “X # Y = Z” (e.g. “5 + 3 = 8”).
- Clients requests for “**Quit**”, the server will response with “Thank you and good bye” and close the connection.
- Client sends other commands, the serve will return “No Answer” and remain waiting for the next command from the client.

Example output:

<i>Client sends</i>		<i>Server responses</i>
LocalTime	→	9:27 AM
5, 3, +	→	5 + 3 = 8
Date	→	No Answer
16, 2, -	→	16 - 2 = 14
Hello	→	No Answer
Quit	→	Thank you and good bye

Submission:

- You have to submit 2 files for client and server. The file name formats are “xxx-client.py” and “xxx-server.py” (xxx is your student id, e.g. 5810541111-client.py and 5810541111-server.py)
- The submission website is <http://lms.ku.ac.th> (course name: 01219321 – 2017, HW#4)
- The due date is on Tuesday September 19, 2017 @11:55 AM.