Midterm assignment

MERLE Jean-Charles (12224870)

The UDP client file opens the json file and loads the data in a dictionary. We then ask of the user to write a message to send to the server before sending the json file data. Once the message typed and sent to the UDP server, the server sends back a pong message to say that the message is well received.

The client code then enters a loop where it will send every json object contained in the json file as a string, that is encoded, to the server. The server prints every package received to make sure it is well received and also sends a response to the client.

The timeout value is set to one second and if nothing is received from the server during that interval, we print an error message on the client side ('except timeout:').

The delay between when the client sends the ping message and receives a pong message is also printed with the pong message. The way it is calculated is very simple. By importing the module time, we can use a function time.time() that returns us the time in seconds. We then just need to substract the time when we sent the ping message to the server, to the time when we received the pong message.