Due to the COVID-19, I only finish part of this assignment (step 1 and step 2)

The program runs as below:

I setup three classes: P2P\_peers, DHT, P2P\_host.

In class P2P\_peers, I initial the peer attribute (id, port\_number , address)

In class P2P\_host,:

* I initial the parameter in init function, use function send\_udp\_setup to bind address and send encoded data to receiver address.
* Setup multithreading of sending ping command in UDP (function : send\_UDP\_multi).
* Initial the receive program and check data come from which sender. (function: receive\_udp\_setup)
* In the main function, receive the parameter and initial the host, active the receive function first, then active the send function.

This code can only initial the peers and send / receive the ping command from other peers. Therefore there are so much improvement to be made. I will try to finish other part of code in vacation.