Your option <enter a number>: 6 Enter the new channel id: 5656 Private key received from server and channel 5656 was successfully created! All the data in this channel is encrypted General Admin Guidelines: 1. #robot is the admin of this channel 2. Type '#exit' to terminate the channel (only for admins) General Chat Guidelines: 1. Type #bye to exit from this channel. (only for non-admins users) ■ 2. Use #<username> to send a private message to that user. Waiting for other users to join.... ['hey', 1] OT CHIES OCIONE WITH LINK STATE IT SESSE 11. Get the Routing Table of this network with Distance Vector Protocol 12. Turn web proxy server on (extra-credit) 13. Disconnect from server Your option <enter a number>: 12 ***** TCP/UDP Network ***** Options Available: 1. Get users list 2. Send a message 3. Get my messages 4. Send a direct message with UDP protocol 5. Broadcast a message with CDMA protocol 6. Create a secure channel to chat with your friends using PGP protocol 7. Join an existing channel 8. Create a Bot to manage a future channel 9. Map the network 10. Get the Routing Table of this client with Link State Protocol 11. Get the Routing Table of this network with Distance Vector Protocol 12. Turn web proxy server on (extra-credit) 13. Disconnect from server

Your option <enter a number>: 11

Routing table requested! Waiting for response....

Network Map:

	rupak	rumpum	robot	roos
rupak	0	1	2	3
rumpum	1	0	4	5
robot	2	4	0	6
roos	3	5	6	0

Routing table for roos (id: 55371) computed with Distance Vector Protocol:

	rupak	rumpum	robot	roos
rupak	0	1	2	3
rumpum	1	0	4	5
robot	2	4	0	6
roos	3	5	6	0

Your option <enter a number>: 10

Routing table requested! Waiting for response....

Network Map:

hey

	rupak	rumpum	robot	roos
rupak	0	1	2	3
rumpum	1	0	4	5
robot	2	4	0	6
roos	3	5	6	0

Routing table for roos (id: 55371) computed with Link State Protocol:

destination	Path	Cost
rupak	<pre>(rupak,rumpum,robot,)</pre>	14
rumpum	(rupak,rumpum,)	8
robot	(rupak,)	3

Your option <enter a number>: 9

Routing table requested! Waiting for response....

Network Map:

	rupak	rumpum	robot	roos
rupak	0	1	2	3
rumpum	1	0	4	5
robot	2	4	0	6
roos	3	5	6	0

our option <enter a number>: 13

venv) Rupaks-MacBook-Pro:client rupakkhatri\$

3. * A few sentences about all the challenges you found during the implementation of this project and how you overcame them. Please be honest here.

For options I created method for them and added those methods to a list and when use requests them we will be calling them as the in1. for sending the menu class I first read the menu.py file as a string and then send it and change it to actual python format using exec method.

2. For connecting between classes and objects I created public variables that works outside the objectdex.

For the connection I used a class for binding, listening and accepting clients For sending and receving data's I used a dictionary that make the work more efficient for seeing unread messages. I added a separate method that have its own thread and works actively and store the result in unread message list