Instructions:

1) - The first file that should be run is the Client.py, Insert as many as machines into the list by pressing the option 1. The Machines can be anything from m1 to m10 (ie: m1,m2,m3,m4,m5,m6,m7,m8,m9,m10)

2) - If you press the option 2 in Client.py, You can remove machines. You can only remove machines which were already inserted and present in the file.

3) - The next program which should be run is Members.py. Run Members.py and you will see that the membership list is created for each of the processes which are active. Each process will have a Membership List which has 3 other active processes selected at random.

4) - The next program that should be run is crash_process.py. Here you can select which processes that you wish to crash by entering names of the process which are already active(ie: m1,m2...m10). This will change the status of the processes to be 'crashed'.

5) - Next run SWIM.py, this program will eliminate the crashed processes from the main process list. You do not have to give any input in this program. Just Run it.

6) - Next run SWIM_Protocol.py, This is the actual implementation of SWIM Protocol, where we ping certain active processes and their membership lists and determine which processes are active and respond to the ping requests and which processes have crashed and do not respond to the PING request.