Publish-Subscribe System Demo

- Go to the directory:

  $cd FinalProjectDeliverable/
- Compile:

  $javac src/pssystem/*.java
- Start 3 servers and 2 clients (in 5 separate terminals):

  $java -cp ./src pssystem.Server 2222

  $java -cp ./src pssystem.Server 2223

  $java -cp ./src pssystem.Server 2224

  $java -cp ./src pssystem.Client 8888

  $java -cp ./src pssystem.Client 8889
- Subscribe:

  let client 8888 subscribes to topic #0 and #1;

  let client 8889 subscribe to topic #0 and #2:

  In client 8888 terminal: $0 1

  In client 8889 terminal: $0 2
- Publish message in certain topic from server(leader, should be 2222 initially)

  $0:Hi_From_Topic_0

  $1:Hi_From_Topic_1

  $2:Hi_From_Topic_2

  After this, can see message 0 & 1 appear on client 8888, and 0 & 2 on client 8889.
- Shut down leader to test leader election (it will takes around 36 sec)

  After around 36 sec should see 2224 as the new leader.
- Restart client1 to test continuous subscription

  send from new leader(should be 2224 after leader election)

  $0:Hi_From_Topic_0

  $1:Hi_From_Topic_1

  $2:Hi_From_Topic_2

  After this, can see message 0 & 1 appear on client 8888, and 0 & 2 on client 8889.