MAIN PROGRAMS: ‘**DeepQN\_with\_ExpReplay.m**’ and ‘**DeepQN.m**’

* They are divided into 3 parts(sub-sections):

1. **Initialization**: Initialize the state space, perform some random actions to gather data for initializing the neural net/ populating the Experience Replay memory. Lastly, the important step to define the neural net layers and train the network with random data (equivalent to Initializing with random weights)  
2. **Training Period:** Training options for the net and other parameters are defined initially here which leads to the step-wise episodic training (LEARNING) of the network. Initial position is to be defined here.

3. **Validation/Evaluation**: The Learning (trained Net) is validated here by running the experiment for certain number of episodes. Initial position for validation is needed to be defined here.

* They use various supporting functions given along in the folder.

Pre-trained Network and Examples:

Successful examples for the DQN implementation are given as separate folders.

The “*.mat*” file is to be loaded and just the validation part of above program(in the folder) is to be run(other parts have been commented out).