Coursework 2 – Tic-Tac-To: Markov Decision Processes & Reinforcement Learning (worth 25% of your final mark)

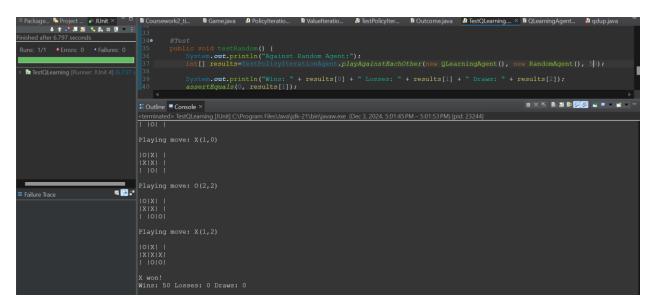
Question 6 (1 point): Like the previous questions, test your Q-Learning Agent against each of the provided agents 50 times and report on the results - how many games they won, lost & drew. The other agents are: *random*, *aggressive*, *defensive*.

Ans:

- Q learning agent uses epilson greedy function to exploit and explore.
- Train(): goes through a number of episodes using an epsilon-greedy strategy. During each episode, the agent updates Q-values based on rewards and resets the environment after reaching a terminal state
- extractPolicy(): maps each game to its best move on q value in q table.

	WINS	LOSS	DRAWS
RANDOM	50	0	0
AGRESSIVE	50	0	0
DEFENSIVE	44	0	6

Random:



Aggressive:

Defensive:

