Spike: 4

Title: Graphs, Search and Rules

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Goals / deliverables:

Code

Report

Technologies, Tools, and Resources used:

Python IDE 3.12

- W3Schools: https://www.w3schools.com/python/python_try_except.asp
- GeeksforGeeks: https://www.geeksforgeeks.org/graph-data-structure-and-algorithms/
- Laptop

Tasks undertaken:

- Download and install the latest Python IDE or the latest Visual Studio Code
- Download and install the latest Git Bash Terminal
- Run the code with the git bash terminal to help compile the code while the file is in its local folder

What we found out:

The outcome of the program was that the AI was able to copy the tic tac toe gameboard before making a move on the user while playing the game. The AI was also able to randomly search for the graph and improve the efficiency and effectiveness of a basic random search. It relates to the spike topic because the games represent its discrete states.