Value Iteration Agent Report

Course code and name:	F29AI
Type of assessment:	**Individual**
Coursework Title:	Coursework 2 ,Tic-Tac-Toe Game
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Student ID Number:	H00383233

Declaration of authorship. By signing this form:

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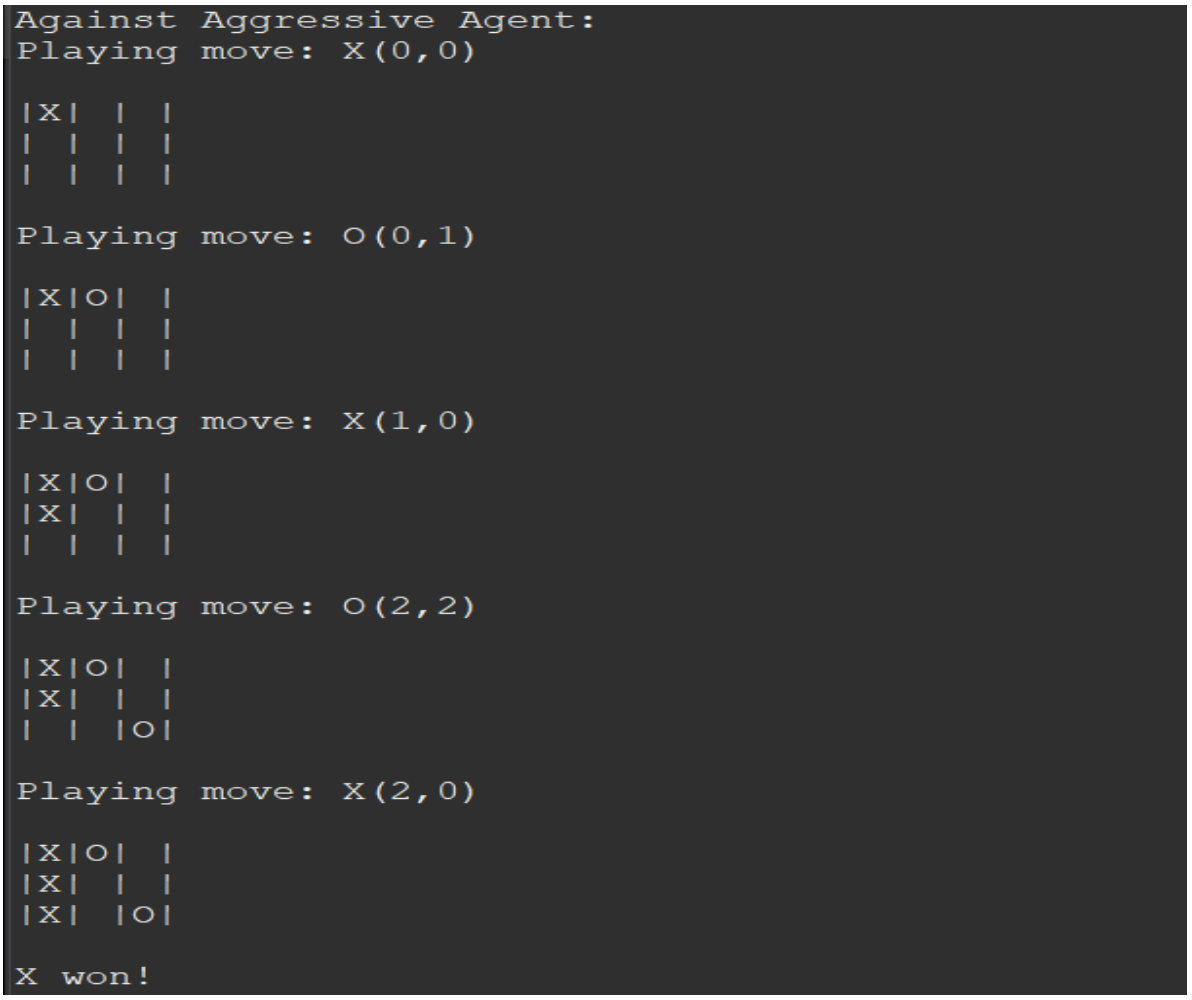
The value iteration agent requires the implementation of iterate() and extractPolicy().The rule based agents are:

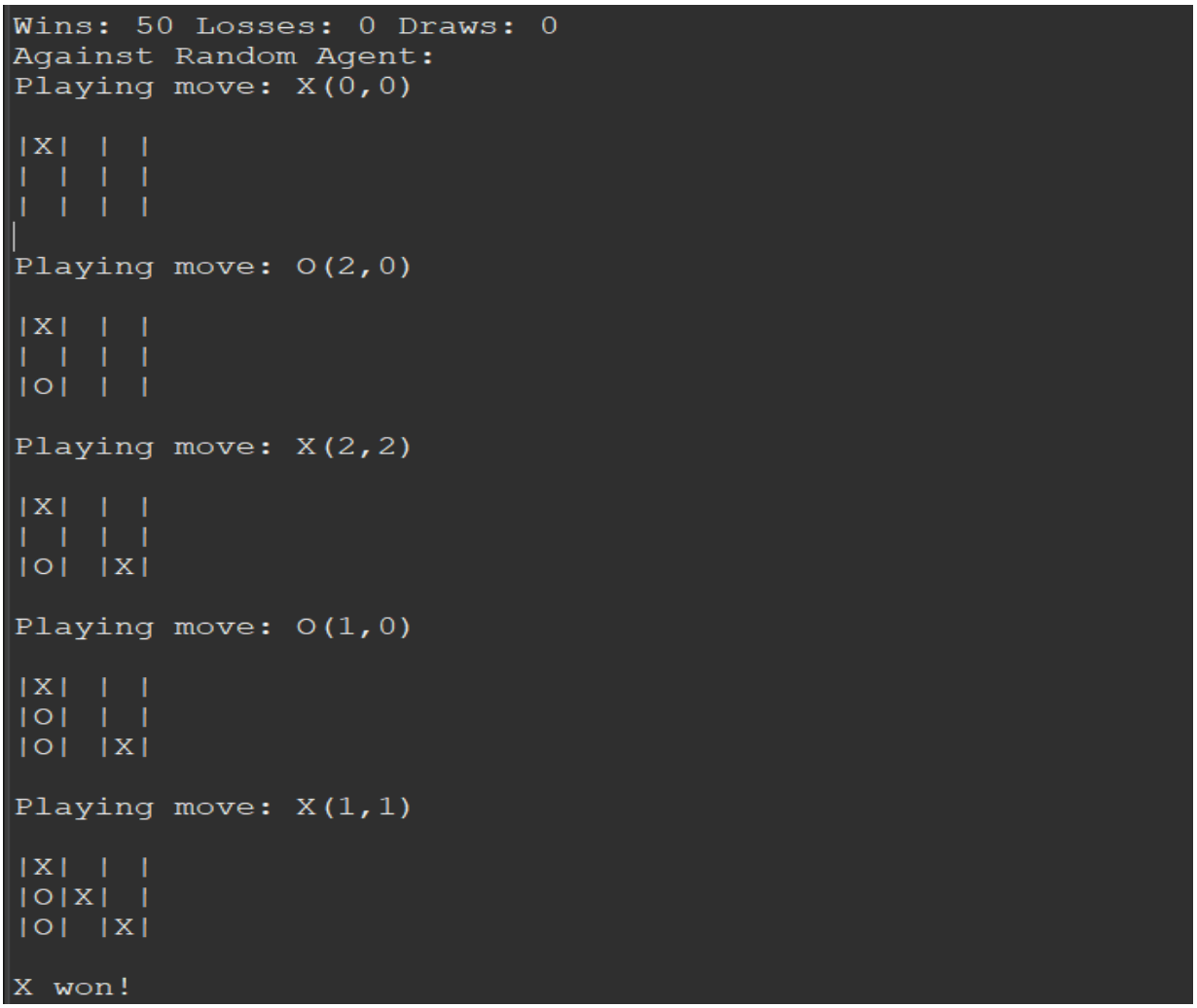
- Aggressive Agent
- Defensive Agent
- Random Agent

```
Against Defensive Agent:
Playing move: X(0,0)

|X|  |  |
|  |  |  |
|  |  |  |

Playing random move
Playing move: O(0,2)

|X|  |O|
|  |  |  |
|  |  |  |

Playing move: X(1,0)

|X|  |O|
|X|  |  |
|  |  |  |

Playing defensive move
Playing move: O(2,0)

|X|  |O|
|X|  |  |
|O|  |  |

Playing move: X(1,1)

|X|  |O|
|X|X|  |
|O|  |  |

Playing defensive move
Playing move: O(1,2)

|X|  |O|
|X|X|O|
|O|  |  |

Playing move: X(2,2)

|X|  |O|
|X|X|O|
|O|  |X|

X won!
```

Wins: 46 Losses: 0 Draws: 4



Wins: 50 Losses: 0 Draws: 0



Wins: 50 Losses: 0 Draws: 0

Link to LLM used:
“https://chat.openai.com/c/ca9e29e9-8510-42db-8f46-9642bdd37208”