**Tic tac toe**

**What is Tic-Tac-Toe?**

It is a game consists of two shapes and only one of them wins, and to win the shape must be similar horizontally or vertically or diagonally.

**Problem:**

It is a game that contain two shapes and to win one of two shapes is similar horizontally ,vertically,

Diagonally.

**Results:**

At the end one of two players will win or draw

**Hypothesis:**

How to solve it manually

 or

use artificial intelligence algorithms to solve it.

**Agent design (PEAS):**

|  |  |  |  |
| --- | --- | --- | --- |
| **Performance measure** | **Environment** | **Actuators** | **Sensors** |
| fast , agent always make the best move, profit | board, player . computer | Screen display | movement ofthe opponent , mouse click. |

**Environment properties (ODESSA+D):**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Observability** | **Deterministic** | **Episode** | **Static** | **Agent** | **Discrete** |
| Fully observable | strategic | sequential | static | Multi-agent  (competitive) | discrete |

**Agent type:**

Goal-based reflex agents

**Names of team**

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