

AI Lab-1 Jayaraj Mishra 9557 Batch B
Postlab:

- 1) What is the easiest trick to win Tic Tac Toe?
→ 1. The easiest trick to win Tic Tac Toe is to start in the centre square if its available, or if not start in a corner. From there, you can follow strategy that prioritizes creating threats, blocking your opponents threats and ultimately forcing a win or draw. With optimal play, you can guarantee a win or a draw in Tic Tac Toe.
- 2) What is the algorithm to follow to win a 5^x5 Tic Tac Toe?
→ For a 5x5 Tic Tac Toe game, the winning algorithm would be similar to the one used for the standard 3x3 game. However, due to the larger grid size, there are more possible lines to consider. The algorithm would be to be adjusted to account for these additional possibilities but the general strategy remains the same: prioritize creating threats, block opponents threats and aim for a win or a draw.
- 3) Is there a way to never lose a Tic Tac Toe?
→ Yes, there is a way to never lose at Tic Tac Toe, provided you follow a perfect strategy. The game has been solved, meaning that with optimal play, the game will always

result in a draw. If both the players make the best possible move at each turn, no one will win.

4) What can Tic-Tac-Toe help you with?

⇒ Tic Tac Toe can help with various cognitive skills, including logical thinking, pattern recognition and strategic planning. It's often used as a simple example in game theory and artificial intelligence due to its straightforward rules and strategic depth. Playing Tic-Tac-Toe can also improve decision making skills and help develop a competitive spirit. Additionally, it's a fun and engaging way to pass the time and can be enjoyed by people of all ages.