## Expt 6: - Minimax Algorithm and. Real World Problem (Tic Toe

Problem Formulation: OHere minimax algorithm is used to find the most optimal way of winning a tictac toe problem

C\*). Path cost: -

No of permutations while solving the problem using state space.

(\*) Operators: -The no. of moves, signs and the stake space are me operators

(\*) Initial State: (3×3)

(\*) Algorithm :-

A description for the algorithm, assuming X is the oftentaking player" would look Something like: -.

coII the game is over, return me score from x's perspetitive

- co otherwise get a list of new game states for every possible move.

  e) Create a scores list.

  c) For each of these states add the minimar result of that state to the scores list.

  c) If its X's turn, return the maximum score, from the scores list.

  C) If its 0's turn, return the maximum.

  score from the scores list.
- Goal star state: -

















