Tic-Tac-Toe using 2 agent algorithm (Compiler Vs Compiler)

Algorithm

board Display CT

Winning Position - [[0,4,8], [2,4,6], [0,3,6], [1,4,1],

1. While loop

- . Algorithm 1 starts playing algoplay ()
  - 2- 91 Algorithm 1 coins exit from the loop 8. Else Algorithm 2 starts playing.
    - 3. If Algorithm & wins exit from loop. Else the loop continues.
  - 4. If all positions are filled and no algorithms wins e print ("Draw Match") Exit from the loop.

13/11/2020 AI Lab Test 1 Sahana L 1BM18650897 Banda Code Afgen Psendecores board = [ " "] + 9 evinning Position = [[0,4,8] [2,4,6] [0,3,6], (1,4,7], [0,1,2], [3,4,5] [6,7,8] [2,5,8] board Display (), // function to display board CheckIf Available (pos): // to elect if the entered position is reason ? "If (board [pos] = = " "): return 1 action O checkwin (player): // to check the winner for x in Winning Position: of board[x[0]] = board[x[1]] and board[x[1]] = board[x[1]] and board [x[0]]!= " ". print (player + " Won") return O. for I in board: if 1 == " ": return 1 print (" Draw Match")



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algoldin (player)

// To check if the player has put a position plane

winning position and then scleet 3rd position plane

position to evin.

Stop Player (playa):

1 This function would check if the opponent has

Chosen to 2 winning positions & then try to stop

them from choosing the 3rd winning Position.

Algo Try Win (player)

This function would check the positions which

may win on the next chance.

1 To select a random position from 0 to 8 whichever "is empty

algoPlay ():

1 Call the algoVin (Player), to check the evinning

possibilities.

194 no evinning possibilities then,

11 Call the StopPlayer (y), to check if the other

player is evinning & stop them.

1/ call the algo Try Win (x)

1/ Call randomPos() to select a random place to insert the to enter value.

dey Play () 1 Call display board Display () 11 Set play=1 1 while (glay) Algorithm 1 playing (x) autoplay ("x" "0") board Display () Checkwin C + / Check if algorithm 1 has won /191 Algo 1 didn't coin, then Algorithm & playing (0) acutoplay ("O", "x") board Display () if checkwin () // Check if algorithm & has won. ftag = 0 //91 Algo 2 won, set flag = 0. else flag = 0.

