AI -LAB- TEST-1 IRM 18 CS082 a) Implement Tic-tac-toe 5-B using 2-agent algorithm (Comfuter us Comfuter). Tic Tac Toe (computer us computer) import numby as no import lander Alm time import sleep It Creating an empty board def weste-board (): neturn (up. array ([[0,0,0] [0,0,0] [0,0,0]]) H Check for empty places on bound def chances (board); l=(] for i in lange (len [board]): for j in range (lan [board]): if board [i] Ey? = = 0: (1A)

Continue

return (& win) return (wow) H Checking whether player has 3 of their marks in vertocal now def col-win (board, player): Yor I in range [lon (board)]: win = True for y in range (In (board)): of board [y] (x]! = player: won - Felse Contrue af win - The: retain (wen) notale (well) A Check whether player has 3 of marks in diagonal dow. diag-win (board, player): def wh = true 4-0 for I in range (den (board)):

af board [11, 12] = player:

with - false

of win: return win

win - True

if were: but 12 in range (len Chard):

y = len (board) - (- 11

of board (n, y ?! = player:

win = False

actum wen

It evaluations whether there is a winner or of is

he.

des evolude (board):

wruner = 0

for player in [1, 2]:

if (Now wan (bad, player) or

col-won (board, flager) or

diag-won (board-player)):

winner = player

(28)

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