AI - LABTEST - 1 P.SAI DEEKSHITH IBM18 CS148 TIC TACTOR (computer Vx Computer) - July n print (" TIC TAC TOE") privil ("AI VA AI") the Board [[.] x 10 donne (10123456789). er Grame Playing = Toure
fient = Toure while is brance Playing:

for agent in ['x', 'o']:

(finit): more sandons Numthe Board [more] = agent fint = F.he more = get Agent Hove (He Board, agent H Chenter of it is a Winner P. SAI DEEKSHIT if whinner (1608 agent): 1BM18CS148 Down Roard (the Board) (B) m paint (agent + " won the game") is Grane Haying : False H check it is no Donard (brecosed) draw Board (the Board)

paid ("It is a tiel")

paid ("It is a tiel")

In Grave Playing

in Grave drankoord (the Board) period ("Do. you wand then play again: (Y/N)") Choice " or choice = " N':

P.SAI DEEKSHITH det get-Agent Hore (fluBoord, letter): IBN18CS148 of Organ for more in range (1,10): ig a Spare Free (the Board, move) == Time and can Win (the Board, 'o', more): retion more for more in nonge (1,10): if in Space Free (the Board, neare) = = Tome and Canwin (the Board, 'X') get som more more in trange (1, 10): if in Spare Free (the Board, more) = 2 Tome and Can Win (the Board X) Tome and more get von more if in Spare Free (the Boood, word) for more in snange, Tem and Con Win (the Board, .(0, mor): sulvan more. return Win Strategy (He Board, letter)

Scanned with CamScanner

P.S. DEEKSAITH det Winstrategy(boord, litter):

| board[s] == '':
| sulvan s
| in [1,3,7,9]: IBM18CS148 i} board[?] == '?; sulven i for i in [2,4,6,8]: board[i] == 'i

nertare i. def can Win (board, letter, more):

temp - Copy. deep copy (board)

temp Truore] - Weter gret vous & Winner (temp, letter) in Winner (boosed, letter): (board [i] = Welter and board [s] = Welter and board [3] == letter) or (boord [ii) = aller and boomd [5]= What board [0]: When) or (board [7] : Weller and boord[8] letter ord board [9] =: letter)

(board [7] = letter and board [8] = letter and BAIRCSIUS

(board [7] = letter and board [8] = letter

(board [7] = letter and board [8] = letter

and board [8] = letter and board [6] = letter

(board [3] = letter and board [6] = letter)

and board [9] = letter)

and board [9] = letter)