Computer us . Computer. C- Karar Naidy 1BM18C5045 TIC TAC TOE. AI Lab-2 import nummy as mp import random from time import sleep del create - board (): return (nf. array ([[0,0,0] [0,0,0] [0,0,0]D) del possibilities (board): togi in sange (len (board)). for j in range (len (board.)); if board [i][j]==0. loappend ((i,i)). return (l).

det now-win (board, player). For x in Hange (len (bowid)): win = Tene. for y in range (len(board)): If board [x,y]! = player: win= False continue. if win = Torul. section (win) netion (win). def · diag-win (board, player): Win=Trul y=0 for X in Hange (len (board)): if board [x,x]! = player: win: False if win: gretwin win. c. Karam Naidu win = Tour. 1BM18 ( 4042

if win: for x in grange (len (b.owid)): y = len (bowrd) - 1 - x

if board [x, y]! = X.h layer: win = False section win # Evaluate whether a win on tie. def. ævaluate (bowed): winner = 0. for player in [1, 2]: if (now-win (board/ player) or col\_win (board / player) or diag-win (board, player)): winner = player if mp. all (board & = 0) and winner = 0; ninner = -1 greturn winner. c. Kanan Naidu 13 M 18 C 50 42 3/

It Main function to start the game def play-game(): board/winner counter = create-board (), fount (board) sleep (2) while winner = 0: for player in [1, 2]: board = gardom - place (bo and, playor) huint ("Board & Board after" + str/(counter) print (board) sleep (2) ( ount ex += 1 winner evaluate (board) if winner = 0: setwin (winner). buint ("Winneris: "+sta (flay-gamel)) C. Karan Naidu 1BM18 C5042