Treant. 15 - (notes tra diagrams
Min Max
I return a value if a terminal state is found (+10,0,-10)
2. go through avoilable spots un board
3. cay the minimax function on each available spot (recursion)
4 evaluate phuning values from function calls
5. and return the best valve
Cade explanation
I evel 0 9+ × 1
Tvm x (AI)
Action Maximise Score Score = [10]
level 1 axx axx axx
Tum O (human) x 0 2 x x 5 x 6
minimize score = -10 score = -10
Las Orxixanxix ofox of x
level 2
Tum X(AI) XOO XOO
Action minimize Score = 7-10 Score = -10 Score = -10 Score = -10
- V
level 3 00×0
XXXX 8
×00
Sur - 110t

function por winning (board, player) Janes / Tohmoor heed to define the minimary algo function with two arguments new board and player. find the indexes of the available spots in the board set it to variable willed avail Spots. Function minimax Chamber newboard, player) & 11 available spots var avail Spots = empty Indexing (newBoard); need to check for terminal states and return a valve If O wins should return -10, if X wins should return +10. If the length of the available spots array is zero, There is no more room resulting in a tie nturning zero. Lode if (Winning (new Board, humans) & return & Score :- 103; else if (Winning (new Board, ai Player)) & Htym & Score 103, else if (avail Spots, length === 0) € return & son : Os;

for the tax toe - define the board as con array with 9 items. Each item will have its index as a valve. using this board as an example x x var board = ["0", 1," x" "x", 4, "x", 6, "0", "0"] &; Declare applayer and human variables set them to heads function that looks for winning combinations and returns the if found (James / Tahmoor) and a function that lists the indexes of available spots in the board lode so far var human P="0"; vor alployer = X" 11 returns list of the indexes of empty spots on board function empty Indexies (board) & Heturn board. Filter (5=75! = "0" AD 5! = "x");

Novel to Willed the Scores	From each
the by spoks to every vale	ster.
So make an array talked	moves and long
through emply spots while	collecting each
move's Index and such in	an object cultural
move.	