EXP NO-6

MINIMAX

AIM To implement minimani algorithm problem using python

Cope

def minimax (boosid, depth, 13-max): def minimax (boosid, depth, 13-max): &cosus = {'x':10,'0':-10, 'dsaw':0} win-condition: [(0,1,2), (3,4,5), (6,4,8), (0,3,6)(1,4,4), (2,5,8), (0,4,8), (2,4,6)

dej evaluate (b):

Josi x, y, z in win-conditions:

if b[2] == b[y] == b[z]! = 0'':

satuan scoses [b(x])

oreform None

oscare = evaluate (board)

selvan score

best = -math.inf
food i in stange (9):

15 board [i] == ':

board [i] = 'x'

best = man (best, minimax (bound, depth, , baly 1 board [i] = " seed archar else best = math. inf Aberin earge (9): if booad[i]== "; board [i] = 'O'; best = min (best, miniman (board, depth'+ boased [i] =1? return best; des find\_bes\_move (board): best-move = -1 best-val = - math inf for 1 in stange (9): if boood Ci] = = \'i board [i] = 'x'; move-val = (maximxa (board, a, lalix board [i] = 1 p\* [,,] beood Parint (Best move for palayer x:, find best move ((bosod)) Result 2 program of Minimax have been duccessfully executed.