N-QUEEN'S PROBLEM.

To solve the n1-owens problem volume the goal is to place n-queen on a nen churchoard such Shat no two queen altack each other.

ALGOE IT HM! -

Logi: Nach.

Men 2: create a non chentoard with all chen selve to 0, requeenting no queen placed.

oly s:- Move to the newl-colif placing a gueen worth, elue baddrach by xemoving

step 4: Digslay the board. dep 5: By no sol exist, point "solution does not exists.

PROGRAM:

def isage (board, now, col, n): for i in range (cd):

y board [xow][i] == 1

sofwen Jalle:

gori, j'un eyn (range (910w, -1, -1), xange (col, -1, -1)):

y loand CiJ[j] ==1: , roburn Jalse

solwer loue.

def volve No Ad(board, col, n): y colson: solars land por i in range (n): if isafe Cloosed, i, col, n): board [i][col] = = 1. if solve aloutil (board, col +1, n) = = brune. gesturn brue. loard [i] [col] = 0. return fall. def asolve No (n): board = [[o]*nfor_in range (n)]

if solvenQutil (board, o, n) = = Falle point ("Solution does not enul-"). return Falle for i in board WARRY PROPERTY point (i) retion Louis. n=int (injul- ("inter nælue:"). solve Ma(n). out-just: reull: Enter value:5 necessary executed [10,0,0,2,0] [0,0,0,1,0] E, outjut is [0,0,1,0,0] voijed [0,1,0,0,0] [0,0,0,0,]