## N- QUEENS PROBLEM.

AIM:

To gove the N-Queen psublem where the goal is to place N-queens on a nxn dessboard such that no two queens attack each other

ALGORITHM:

U) Start. Burt arules (2) create a nx n chess board.

in the same row upper diagonal. (4) I d'all columns
return euccess.

(5) Display the board (6) If no - sol exists point in solution does not exist.

Program: board, row, colon): dor i in range (col):

if board frow Tiste!

force, j'in zip (range (row, 1, -1), id board [i][i]==1:

return dalse return true del volve Np Util (board, col, n).  $\frac{1}{10} \left| \frac{\cos 2x}{\cos x} \right| = 10^{-11} \left| \frac{1}{10} \right| = 10^{-11} \left| \frac{1}{10} \right| = 10^{-11}$ return true! in range (n); is Saje (board, col+1,0)== roturn true board [1] [col] = 0 return False min deto solve, no (n.): board = [ofo] \* n for - In range (n)] if solve N Qutil (board, 0,0) == False parint (" solution does not exist") return false sizing los polyes point (i) leixa n = int (cinput (" enter i value") b 1/solve No(s) ( return true. Output: Enter value: 5 [0,0,0,0,0] [0,1,0,0,1] tande (ce) [0,1,0] [1,0,0,0,0,0,0] rouge (cc/ ) [0,0,1,0,0]