The annual angular commence to the state of	Oote :
Exp:1	
Aim:	
To implement N- Queens p	roblem in python using backtracking
ALGORITHM.	J
ALGORITHM. Step 1: Step 1:	more given by
	. 3. 4. <b>4</b>
here! cocate an empty	NXN CheySboard initialized with
- janoes	NXN cheysboard initialized with
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
St	Colorns of the lutowest row
A	
a guen in that	Column & Sal.
NO OW	of queins should be placed in the
* No queen	Should on the left upper diagonal schould be on the right upper
a No quein	Should be on the right war
81 - 0 dangorial	J. Apper
Steps: if placing the que	en is Saf , place it move tothe
next now and repeat the	Process:
Steph: if no valid position	process is found placing a quoen in the
Churry tow, backtrack	ing by removing the queen from
the Previous sons and	try placing it in another colours.
stept: 17 wells on swo	ortalla Para 19 solution is tour
Step8: Print -la Chusbon	rd Configuration with queens
glaced on the board	in the same of the
Stepa: If no Solution is for	and Output NO
Stroin: Stop	f. I eye
Stepio: Stop	
, , / , , , , , , , , , , , , , , , , ,	
	and a super transfer
	•
The second secon	
The state of the s	and the second s

•

of challength and the	Date:
	CODE:
	def is lafe (board, row, col, N): for in range (row):
- Indian	for in range (row).
*	if hound [][col] == 1.
5	return falle
	For i, j in Zip (range (row, -1, -1), range (od, -1, -1))
	if board (i)[i] ==1.
	return fake
	for i, i in Zip ( barge ( row, -1, -1), large (whi 1));
10	if board City City == 1.
	· Book of the property of the sound to
	gas and return True gardas die
	William of the wife of the
	def some nomens (board, now, N)
15	14 mu>=N:
1.79	return true
	for colin range (N)
	if h Safe (board, row, (d, h).
4	hoard [now] [oi]=1
20	if some nomens (board, how +1,00).
	netion Take
5.0	· O= [Jas][was bis an
1	return false.
-14	def Print Solution (hoard, W)
25	for row inhoard
	point (" ", join ("p"if lol=-ldge". Ro
	Contract to the second to the
	def n-quans(N)
30	board = COJ"N for in dange (NJ)
	Print (" Solution of CO. N)
	It some nqueens (boards, 0, N).  Print (" solution for ? - Queens " format (N).  Print Solution (board, N)
	else
35	Print ('NO Solution" from + (A)

N = int (input (" Enter the value of n.")).
N = queens (N) Enter no of Queens you want: 8 [ Q ----] 5 - 1 - 1 - 1 \_\_\_Q\_\_\_\_\_ [ + + T T T T Q ] der with BULL ATT IT - - ] == = = Q - J. 8-Q-------- Q ----8/1/- <del>/</del> -- <del>/ K</del>

ESULT:
There, N-Queens Problems wing backtracking is implemented