PROGRAM

def Solve (quiens, N):

if len(quiens) == N:

print ("\n", join("", join("")" if i==c else "." for i in range (N))

return True

for c in quiens)

for use in range (N):

y all (col!=c and also (len (quiens)-r)!= abs(col-c)

for r, c in enumeration of solve return Touse

return Touse

return Talse

N= int (input ("Enter the number of Gauss: "))

GOOGLE COLLAB

Solve [[], N)

Enter the number of Queens: 4

· Q · ·

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Q · ·

· · Q

True

DUTPUT

Enter the number of Queens: 4.

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. . .

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Tome

10 09 2024	classmate Date Page
	EXPNO: 1
	ENP NAME: N QUEENS ALGORITHM
	AIM: To implement the Nauurs algorithm using python.
	ALL RITHM:
	1) but number of queens from usor as input
	2) Pass the number value into the solve function. 3) check if the boosed is filled with queens
	The fruit the Ineard
	5) Else loop al in sange of N.
	6) Inside the loop sheek all () does the following checks. 7) The for r, c in enumerate (board) gives is the
	index rand value C.
	8) Next me check of collect Column not same as wirend
	9) And the diagonal abs denceueurs)-x)1=abs(col-c):
	Col ~ The new column where we are trying toplaceques
	The rolumn whose premous queen is placed.
	lengueas) > The number of queens placed (next sour) The now of previous queen.
	if It time we pass the next queen value alongwith
	new volum valace.
	RESOLT:
	Thus the program has been successfully implemented
	Thus the program has been successfully implemented in python and supput has been inflemented.