**8 QUEENS PROBLEM**

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**Program:**

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

board = [[0]\*N for \_ in range(N)]

def attack(I,j):

for k in range(0,N):

if board[i][k]==1 or board[k][j]==1:

return True

for k in range(0,N):

for l in range(0,N):

if(k+l==i+j)or (k-l==i-j):

if board[k][l]==1:

return True

return False

def N\_queens(n):

if n==0:

return True

for I in range (0,N):

for j in range(0,N):

if(not(attack(I,j)))and (board[i][j]!=1):

board[i][j]=1

if N\_queens(n-1)==True:

return True

board[i][j]=0

return False

N\_queens(N)

for I in board:

print(i)

OUTPUT:

