```
# Taking number of queens as input from user
N = int(input("Enter the number of queens: "))

# here we create a chessboard
# NxN matrix with all elements set to 0
board = [[0]*N for _ in range(N)]

def attack(i, j):
  #checking vertically and horizontally if there are any queen placed
  for k in range(0,N):
    if board[i][k]==1 or board[k][j]==1:
      return True
  #checking diagonally if there are any queen placed
  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
  # here we are checking whether we can place queen at ith row and jth column
  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)
```