```
In [9]: #Number of Quuens
print("Enter Number of Queens : ")
N = int(input())
#chessboard
#NxN matrix with all elements 0
board = [[0]*N for _ in range (N)]
def is_attack(i,j):
    #checking if there is a queen in row or column
    for k in range(0,N):
        if board [i][k]==1 or board[k][j]==1:
            return True
    #checking if there is a queen in diagonal
    for k in range(0,N):
        for 1 in range(0,N):
             if (k+1==j+1) or (k-1==j-1):
                if board[k][l]==1:
                     return True
    return False
def N queen(n):
    #if n = 0, solution found
    if n==0:
        return True
    for i in range(0,N):
        for j in range(0,N):
             '''checking if we can place a queen here or not
             queen will not be placed if place is being attacked or
             already occupied'''
             if(not(is_attack(i,j))) and (board[i][j]!=1):
                board[i][j]=1
                #recursion
                #whether we can put next queen with this arrangement or not
                if N queen(n-1)==True:
                     return True
                board[i][j] = 0
    return False
N queen(N)
for i in board:
    print(i)
Enter Number of Queens :
[1, 0, 0, 0]
[0, 1, 0, 0]
[0, 0, 1, 0]
[0, 0, 0, 1]
```