AIM:

The aim is to solve the 8 queen program using python programming

Program:

print ("Enter the number of queens")

N = int(input())

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

def attack(i, j):

#checking vertically and horizontally

for k in range(0,N):

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

return True

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)

INPUT:

Number of queens = 5

OUTPUT:



RESULT:

To solve the 8 queen program using python program is successfully completed