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Name: Prasad Borkar
Roll No.: COTA59
Experiment No.: 04(AI)
print("Enter the number of queens: ")
N = int(input())
# Chessboard:
board = [[0] * N \text{ for } \_ \text{ in range}(N)]
def is_attack(i, j):
  for k in range(0, N):
     if board[i][k] == 1 or board[k][j] == 1:
        return True
  # Checking Diagonals:
  for k in range(0, N):
     for I 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_queen(n):
  if n == 0:
     return True
  for i in range(0, N):
     for j in range(0, N):
        if (not is_attack(i, j)) and (board[i][j] != 1):
           board[i][j] = 1
           if N queen(n - 1) == True:
             return True
           board[i][j] = 0
  return False
N_queen(N)
for i in board:
  print(i)
Output:
Enter the number of queens:
5
[1, 0, 0, 0, 0]
[0, 0, 1, 0, 0]
[0, 0, 0, 0, 1]
[0, 1, 0, 0, 0]
[0, 0, 0, 1, 0]
```