**NQeens Problem**

def is\_safe (board,row, col, n):  
 for c in range(col, -1, -1):  
 if board[row] [c] ==1:  
 return False  
 i = row  
 j = col  
 while (i >= 0 and j >= 0):  
 if board[i][j] ==1:  
 return False  
 i -=1  
 j -=1  
 i = row  
 j = col  
 while (i < n and col >= 0):  
 if board[i][j] == 1:  
 return False  
 i += 1  
 j -= 1  
 return True  
def nQueens(board,col,n):  
 if(col>=n):  
 return True  
 for i in range(n):  
 if is\_safe (board,i,col,n):  
 board[i][col]=1  
 if(nQueens(board, col+1, n)):  
 return True  
 board[i][col]=0  
 return False  
n=int(input("Enter the Numer of Queens= "))  
board=[[0 for j in range (n)] for i in range (n)]  
if(nQueens(board,0,n))==True:  
 for i in range(n):  
 for j in range(n):  
 print(board[i][j],end=" ")  
 print()  
else:  
 print('Not possible')

Graphical user interface, text, application

Description automatically generated