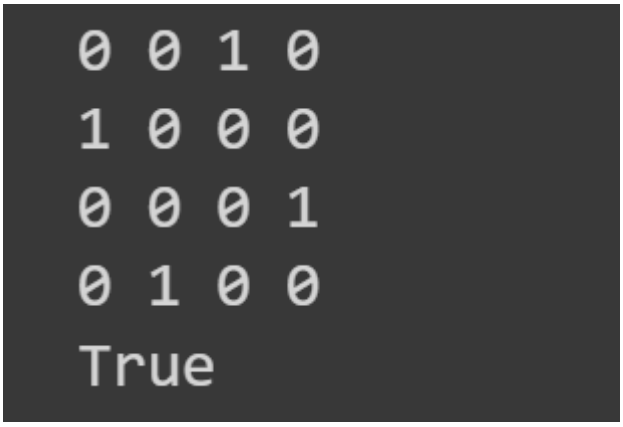
PROGRAM [3]:

```
global N
N = 4
def printSolution(board):
        for i in range(N):
                for j in range(N):
                        print (board[i][j],end=' ')
                print()
def isSafe(board, row, col):
        for i in range(col):
                if board[row][i] == 1:
                        return False
        for i, j in zip(range(row, -1, -1), range(col, -1, -1)):
                if board[i][j] == 1:
                        return False
        for i, j in zip(range(row, N, 1), range(col, -1, -1)):
                if board[i][j] == 1:
                        return False
        return True
def solveNQUtil(board, col):
        if col >= N:
                return True
        for i in range(N):
                if isSafe(board, i, col):
                        board[i][col] = 1
                        if solveNQUtil(board, col + 1) == True:
                                return True
```

OUTPUT [3]:



```
                board[i][col] = 0
        return False
def solveNQ():
        board = [ [0, 0, 0, 0],
                        [0, 0, 0, 0],
                        [0, 0, 0, 0],
                        [0, 0, 0, 0]
                        ]
        if solveNQUtil(board, 0) == False:
                print ("Solution does not exist")
                return False
        printSolution(board)
        return True
solveNQ()
```