Practical - 4

N - Queen

Code:

```
global N
def getnum():
    return int(input("Enter the area of Board:"))
def Solution(board):
    for i in range(N):
        for j in range(N):
            print(board[i][j], end=" ")
        print()
def Safe(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 solvetill(board, col):
    if col >= N:
        return True
    for i in range(N):
        if Safe(board, i, col):
            board[i][col] = 1
            if solvetill(board, col + 1) == True:
                return True
            board[i][col] = 0
    return False
def solveNQ():
```

Output: