**EX.NO: 1**

**DATE:**

**8- QUEENS PROBLEM**

You are given an 8x8 board; find a way to place 8 queens such that no queen can attack any other queen on the chessboard. A queen can only be attacked if it lies on the same row, or same column, or the same diagonal of any other queen. Print all the possible configurations.

To solve this problem, we will make use of the Backtracking algorithm. The backtracking algorithm, in general checks all possible configurations and test whether the required result is obtained or not. For the given problem, we will explore all possible positions the queens can be relatively placed at. The solution will be correct when the number of placed queens = 8.



**AIM :**

To implement an 8-Queesns problem using python.

**CODE :**







**OUTPUT:**



**RESULT:**

**Thus the program is successfully executed and output is verified**