**CODE**

public class FourQueen {

public static int NO\_OF\_QUEENS = 4;

public static void main(String[] args) {

int [] board = {-1, -1, -1, -1};

for (int i = 0; i < NO\_OF\_QUEENS; i++)

{

board[0] = i;

for (int j = 0; j < NO\_OF\_QUEENS; j++)

{

board[1] = j;

if (noKill(board, 1))

{

for (int k = 0; k < NO\_OF\_QUEENS; k++)

{

board[2] = k;

if (noKill(board, 2))

{

for (int l = 0; l < NO\_OF\_QUEENS; l++) {

board[3] = l;

if (noKill(board, 3)) {

displayQueens(board);

}

}

}

}

}

}

}

}

private static void displayQueens(int[] board) {

System.out.println("-------------");

int n = board.length;

for (int row = 0; row < n; row++) {

for (int value : board) {

if (value == row) {

System.out.print("Q\t");

} else {

System.out.print("\*\t");

}

}

System.out.println();

}

}

private static boolean noKill(int[] board, int currentColumnOfQueen) {

for (int i = 0; i < currentColumnOfQueen; i++) {

// same row

if (board[i] == board[currentColumnOfQueen])

return false;

//Diagonal

if ((currentColumnOfQueen - i) == Math.abs(board[currentColumnOfQueen] - board[i])) {

return false;

}

}

return true;

}

}

**OUTPUT-**

