

**UNDERSTANDING:-**

**IF U OBSERVED CAREFULLY IT IS COMBINING TWO DIAGONALS THAT MEANS**

**ONE DIAGONAL WHICH IS MOVING FROM LEFT TO BOTTOM USE LOGIC OF SAME\_ROW==SAME COLUMN**

**SECOND DIAGONAL MOVING FROM RIGHT TO BOTTOM USE LOGIC OF CURRENT\_ROW+CURRENT\_Column == TOTAL\_ROWS + 1**

**THEN JUST MERGE IT TO FORM CROSSS DIAGONALS**

**ALGORITHM:-**

🎯 OBJECTIVE:

\* - Display an X pattern made of stars (\*) on a square grid.

\* - The grid size (rows = columns) is taken as user input.

🧠 LOGIC:

1. Outer loop runs from `1 to total\_rows` (each row).

2. Inner loop runs from `1 to total\_rows` (each column in that row).

3. Inside the inner loop:

\* - If `i == j` → print star on the \*\*main diagonal\*\* (top-left to bottom-right).

\* - Else if `i + j == total\_rows + 1` → print star on the \*\*reverse diagonal\*\* (top-right to bottom-left).

\* - Else → print a tab (`\t`) to maintain spacing.

🔍 NOTE:

\* - For odd total\_rows: Diagonals intersect at the center.

\* - For even total\_rows: Diagonals do not intersect at a single cell, causing a wider gap in the middle — this is mathematically normal.