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| **Team-4** |

**Problem statement:** **Tic-Tac-Toe Game**

Write a program that allows two players to play a game of tic-tac-toe. Use a two-dimensional char array with three rows and three columns as the game board. Each element of the array should be initialized with an asterisk (\*). The program should run a loop that does the following:

1. Displays the contents of the board array.
2. Allows player 1 to select a location on the board for an X. The program should ask the user to enter the row and column numbers.
3. Allows player 2 to select a location on the board for an O. The program should ask the user to enter the row and column numbers.

Determines whether a player has won, or a tie has occurred. If a player has won, the program should declare that player the winner and end. If a tie has occurred, the program should display an appropriate message and end.

You will have to

1. Explain the problem statement (10 points).
2. Compile and execute the code (10 points).
3. Explain the outputs (10 points)
4. Go through the code line-by-line and explain each line (50 points).
5. Answer the audience’s questions (20 points).