# TIC TAC TOE

**INTRODUCTION**

Tic-tac-toe, alternatively called noughts and crosses, X’s and O’s, and many other names, is a pencil-and-paper game for two players, O and X, who take turns marking the spaces in a 3×3 grid, usually X going first. The player who succeeds in placing three respective marks in a horizontal, vertical, or diagonal row wins the game or In Tic-Tac-Toe a game can end with a player winning (getting 3 of his pieces in row) or end in a draw (no spaces left on the board with no-one winning).

**REQUIREMENTS**

Create a command line application for tic tac toe with following requirements:

* Ask the user for the names of the two players.
* Print the grid after initializing
* You need to determine the piece(X/0) and make the move if it is valid.
* Valid move:
* The piece is controlled by the player having the current turn
* The cell is empty
* If the move is valid:
* Put the piece on the cell
* Print the board after the move

**INPUT FORMAT**

Multiple lines with each line containing the Cell Position. The row and column will be separated by a space.

**OUTPUT FORMAT**

Print the initial grid. This would be followed by the grid after each move. In case of an invalid option, do not print the grid and instead print. Invalid option.

The board needs to be printed in the following format based on the respective position:

X X O

4 5 6

O O 9

Here,

X and O represent the different pieces. An empty cell is represented by a hyphen(-)

The intial position of the board would be

1. 2 3

4 5 6

7 8 9

If the player wins after a move, print: ’Player 1 won’ otherwise it print: ‘Game drawn’