

## CS 162

### Programming Lab 1

For this exercise, you will create a Tic-Tac-Toe game for two players. An optional enhancement would be to create a computer opponent.

#### Program Requirements

While this program is an introduction to arrays, it will also be a quick review of functions and input validation. This lab is for you to learn about one dimensional arrays, so the TTT board should be an array of 9 characters.

The functions you need to implement are

- 1) displayInstructions
  - a. displays the instructions
  - b. does not return anything
- 2) showBoard
  - a. pass in board
  - b. display current state
  - c. does not return anything
- 3) getMove
  - a. pass in the board
  - b. return either a move or an updated board, your option
  - c. must validate move (in range, unoccupied square)
- 4) checkWin
  - a. pass in board
  - b. return true if win
- 5) checkDraw
  - a. pass in board
  - b. return true if draw

Your program should ask the user if they want to play another game and repeat if the response is y.