Requirements

Tic Tac Toe Game - C programming Mini Project

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# Hardware Requirements

* + Intel Core - 32 bit or above processor
  + Windows 8 or above Operating System
  + 1920 x 1080 or greater screen resolution
  + 500 GB or larger SSD
  + Minimum 4 GB of RAM

# Software Requirement

For setting up environment for c programming language, we need the following two software tools available on the computer.

* MinGW compiler
* Code blocks 20.03

# Functional Requirements

* 1. A function is needed for creating a board for the Tic Tac toe game and display the board.
  2. Should be able to handle a turn. It should take an input from the user and put that move on the board and display the board with filling up that position.
  3. A function to flip the player turn.
  4. A Function to check if any of the player won the game.
     + Should be able to check rows and check if there is a win
     + Should be able to check the columns and check if there is a win
     + Should be able to check the diagonals for a win.
  5. To check whether the entire board is filled and if the game is a tie.
  6. To be able to go back and repeat the game until there is a winner or if there’s a tie.
  7. If the user has given a number which is not in the range of 1-9, then it should be able to tell that it’s an invalid move.
  8. If the user is trying to make a move in the place which is already occupied, it should tell that it’s an invalid move.