**IT145 FOUNDATION IN APPLICATION DEVELOPMENT**

**Special Project 1 (10pts)**

**Write a Graphical Tic Tac Toe**

In this lab you will create your first graphical application.

NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Objective:**

**Procedure:**

**Visual Tic-Tac-Toe**

1. On the Form in designer view
   1. New title
   2. Need 9 Buttons
      1. Identical
      2. Set to blank text
   3. Others such as
      1. Label to display the result
      2. Button for new game
2. Handling a Button click event
   1. First check if already marked or not.
   2. If marked (either by O or X), show error message
   3. Otherwise,
      1. Mark it either X or O depending on its turn
      2. If the number of marked buttons >= 5, check for winning
      3. If game is over (winner or tied), disable the button clicks
      4. Else change turn
3. Checking for winning
   1. If any row of buttons, any column, or any diagonal, has the same mark O or X, then winning
   2. If no winning, but also if number of marked buttons >= 9, then it’s tie.
   3. If either happens, display the result using message box or label
4. New game Button
   1. Reset the button texts to blank
   2. Reset the variables

In the table below please grade your team mates. Take into the consideration how much time they spend on the project and how well they communicated results. Include yourself in the table. Do provide a full paragraph for the comments and not a single sentence.

|  |  |  |
| --- | --- | --- |
| Name | Grade out of 10 | Comments |
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|  |  |  |
|  |  |  |

Deliverables:

* Zipped Visual Studio Solution
* This form
* GitHub link if you have one (may be optional)

EXTRA CREDIT: N/A this time

When you turn in this lab the person who helped you can get an extra credit. Please indicate this person’s name in the space provided. They get the credit only at the time you are getting your lab graded.

The person who helped me with this lab is (name)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_