FACULTY OF ENGINEERING AND TECHNOLOGY SCHOOL OF COMPUTING

DEPARTMENT OF COMPUTING TECHNOLOGIES

18CSC301T FORMAL LANGUAGE AND AUTOMATA MINI PROJECT REPORT

PROJECT TITLE: Tic Tac Toe using GUI



TEAM MEMBER

- 1. RA2111003010222- KALPANA
- 2. RA2111003010240- NAMRATHA
- 3. RA2111003010214 LIKHITA
- 4. RA2111003010250- KEERTHANA

Objective:

The Objective is to create a Tic Tac Toe game using a graphical user interface (GUI) in Python. The objective is to design a user-friendly interface where players can interact with the game by clicking on the game board cells represented as buttons. The GUI should visually update to display the moves made by each player and determine the winner or a draw condition.

The Tic Tac Toe game follows these rules:

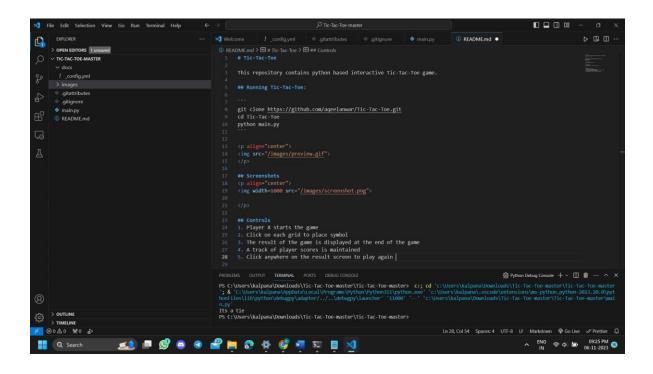
- 1. The game is played on a 3x3 grid.
- 2. Two players take turns, one marking "X" and the other marking "O" in empty cells.
- 3. The game continues until there is a winner or all cells are filled without a winning combination.
- 4. A player wins if they have three of their symbols in a row, column, or diagonal.
- 5. If no player achieves a winning combination and all cells are filled, the game ends in a draw.

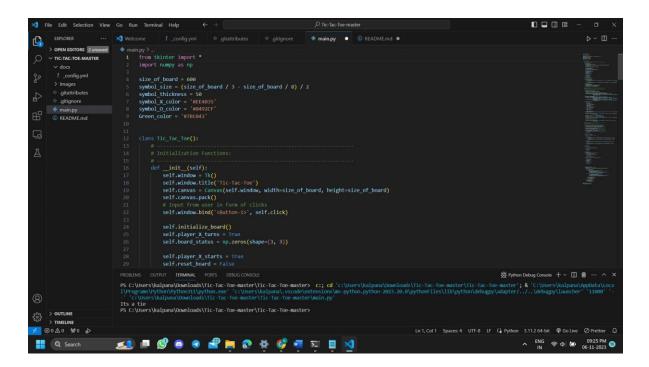
The GUI should provide an intuitive and visually appealing interface to represent the game board and allow players to make their moves easily. It should update the game state and display the outcome of each game, offering options to restart the game or exit the application.

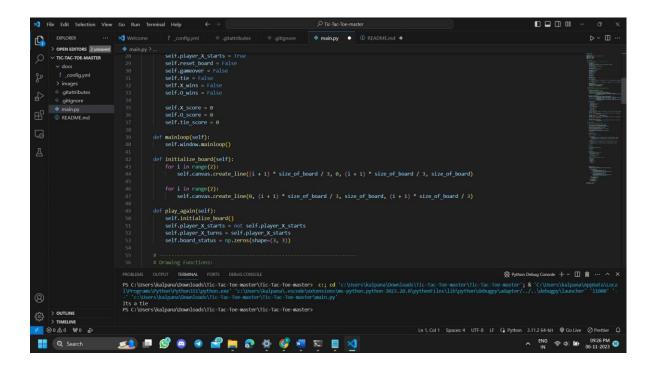
Overall, the problem involves integrating the game logic, GUI design, event handling, and game flow to create an interactive and enjoyable Tic Tac Toe game using a GUI in Python

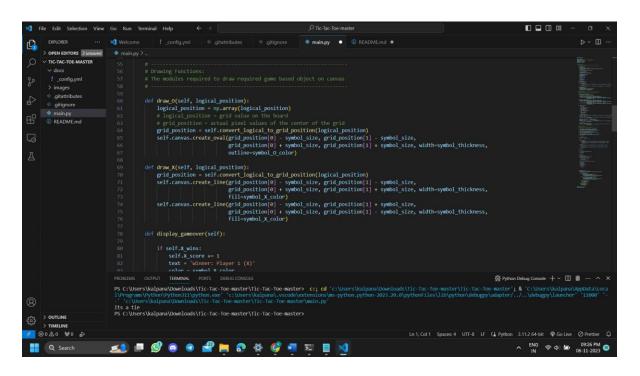
Software Used: Visual Studio Code

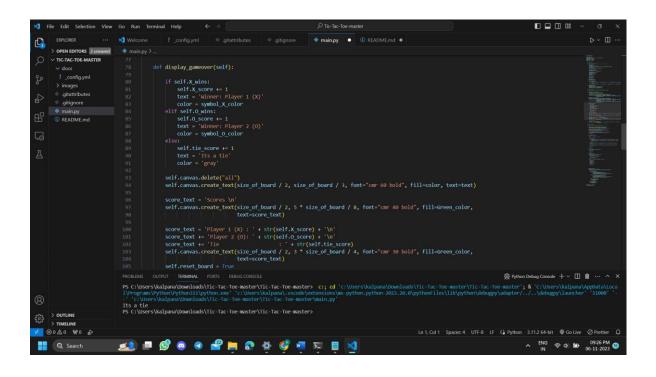
Screen Shots:

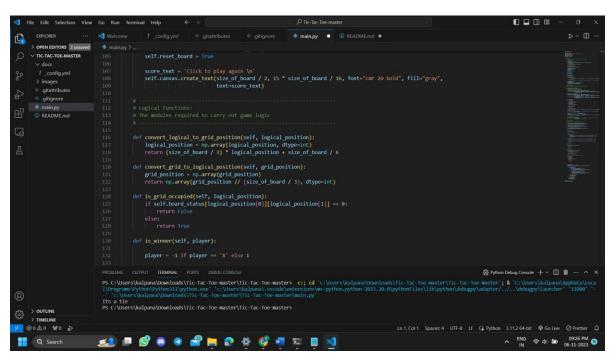


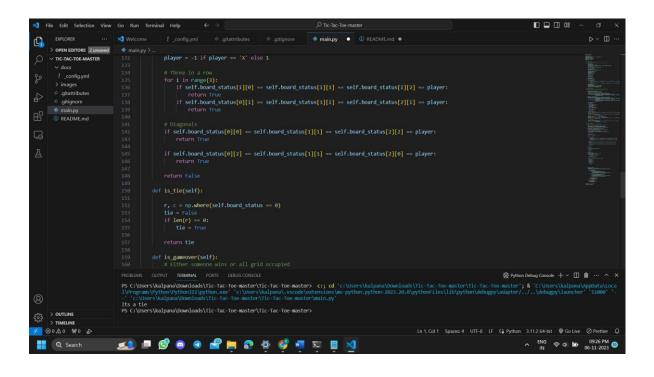


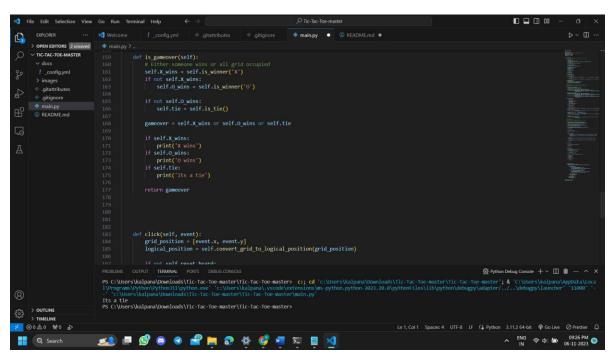


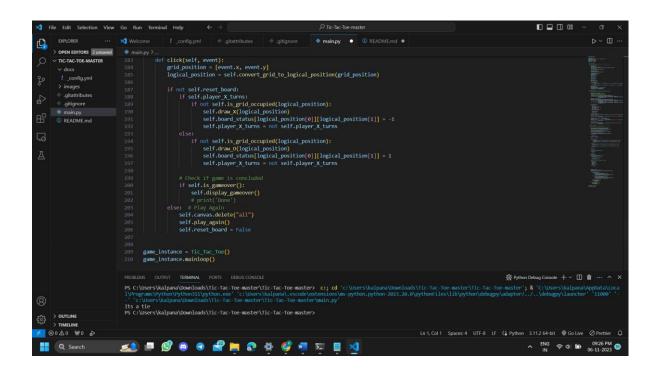


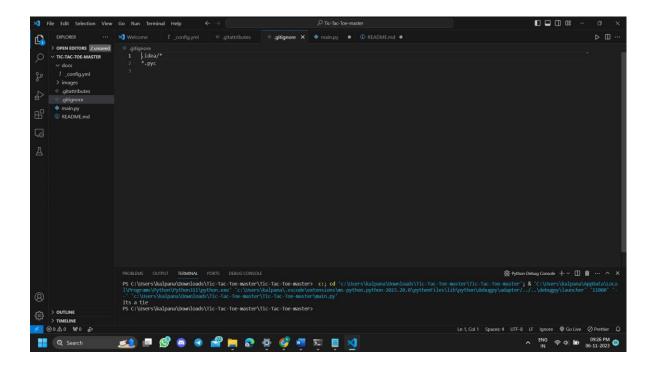


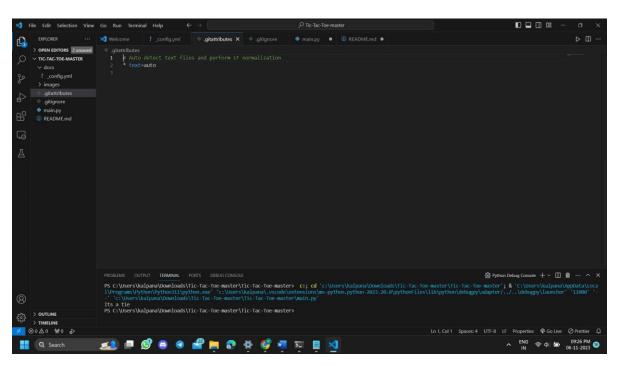


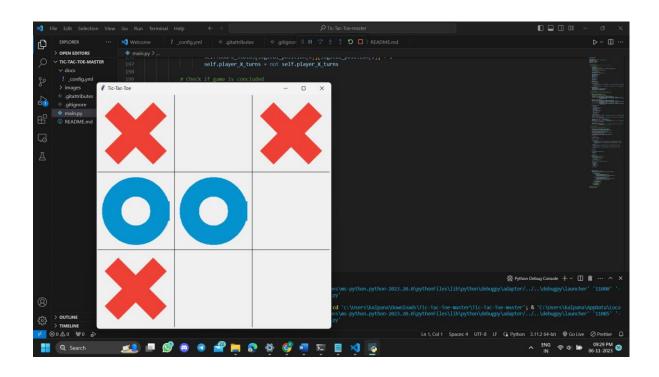


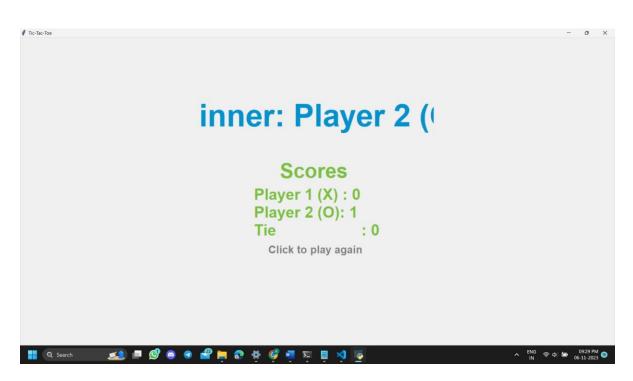












Video Link (Make it Public):

https://drive.google.com/file/d/1QbQSKF-ZlwFM8ZMl6omRFDZ MKkmGCj0/view

?usp=drivesdk

GitHub Link: https://github.com/kattakalpana/tic-tac-toe

Contribution of the author:

We've studied about the related topics and collected the data required and designed the

analysis. We've developed the code and executed it in VSCode successfully. We also used

geeksforgeeks, javatpoint and shiksha for reference and data collection.

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