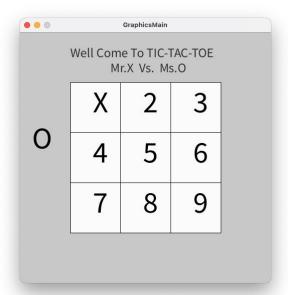
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ICS 499- 01 — Software Engineering and Capstone Project Assignment #1

The result of GraphicsMain.java:



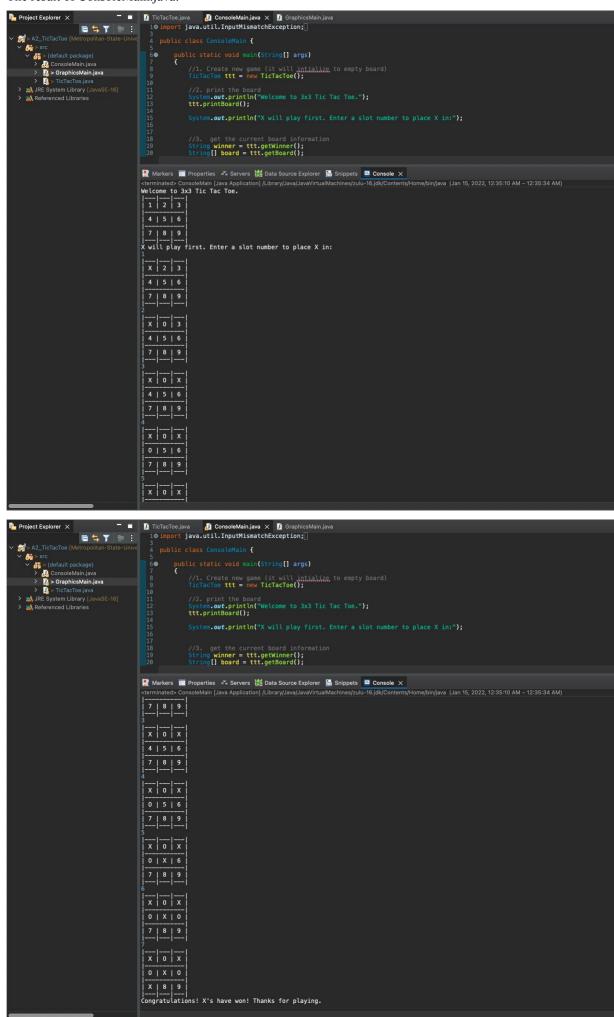








The result of ConsoleMain.java:



GraphicsMain.java

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If a Natural Teacher Memorature State show

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ConsoleMain.java

```
Project Explorer X
                                                           10 import java.util.InputMismatchException;
   > A2_TicTacToe [Metropolitan-State-Univ
    > 

JRE System Library [JavaSE-16]
> 
Referenced Libraries
                                                                              //2. print the board
System.out.println("Welcome to 3x3 Tic Tac Toe.");
ttt.printBoard();
                                                                               //3. get the current board info
String winner = ttt.getWinner();
String[] board = ttt.getBoard();
                                                                               //4. As long as the winner is "None", we should keep playing the game
// The game stops when winner = X or winner = Y or winner = draw
Scanner in = new Scanner(System.in);
while (winner.equals("None")) {
    String turn = ttt.getTurn();
                                                                                     int numInput;
                                                                               numInput = in.nextInt();
if (!(numInput > 0 && numInput <= 9)) {
    System.out.println("Invalid input; re-enter slot number:");
    continue;
}</pre>
                                                                                     }
catch (InputMismatchException e) {
   System.out.println("Invalid input; re-enter slot number:");
   continue;
                                                                                     String current_value = board[numInput - 1];
String given_value = String.valueOffnumInput);
boolean current_and_given_are_qual= current_value.equals(given_value);
                                                                                      board[numInput - 1] = turn;
                                                                                            if (turn.equals("X")) {
   ttt.setTurn("0");
                                                                                           }
else {
  ttt.setTurn("X");
                                                                                            ttt.printBoard();
winner = ttt.checkWinner();
```

```
Project Explorer X
                                                                                                                                                                      🔬 ConsoleMain.java 🗙
                                                                                     □≒7 № :
       > A2_TicTacToe [Metropolitan-State-Univ
            | System Library Jan
                                                                                                                                                                                                                                   //4. As long as the winner is "None", we should keep playing the game
// The game stops when winner = X or winner = Y or winner = draw
Scanner in = new Scanner(system.in);
while (winner.equals("None")) {
   String turn = ttt.getTurn();
                                                                                                                                                                    25
         > M JRE System Library [JavaSE-16]
> M Referenced Libraries
                                                                                                                                                                                                                                                     int numInput;
                                                                                                                                                                                                                                    // Exception handling.
// numInput will take input from user like from 1 to 9.
// If it is not in range from 1 to 9.
// then it will show you an error "Invalid input."
try
{
// Invalid to provide the content of the c
                                                                                                                                                                                                                                                                      numInput = in.nextInt();
if (!(numInput > 0 && numInput <= 9)) {
    System.out.println("Invalid input; re-enter slot number:");
    continue;</pre>
                                                                                                                                                                                                                                                    }
catch (InputMismatchException e) {
    System.out.println("Invalid input; re-enter slot number:");
    continue;
                                                                                                                                                                                                                                                     String current_value = board[numInput - 1];
String given_value = String.valueOf(numInput);
boolean current_and_given_are_equal = current_value.equals(given_value);
                                                                                                                                                                                                                                                     // This game has two player x and 0.
// Here is the logic to decide the turn.
if (current and given are equal) {
   // update the board position with X or 0
                                                                                                                                                                                                                                                                       // update the board position
board[numInput - 1] = turn;
                                                                                                                                                                                                                                                                         if (turn.equals("X")) {
   ttt.setTurn("0");
                                                                                                                                                                                                                                                                      else {
  ttt.setTurn("X");
}
                                                                                                                                                                                                                                                                       ttt.printBoard();
winner = ttt.checkWinner();
                                                                                                                                                                                                                                   // If no one win or lose from both player x and 0.
// then here is the logic to print "draw".
if (winner-equalsIgnoreCase("draw")) {
    System.out.println("It's a draw! Thanks for playing.");
                                                                                                                                                                                                                                    }
// For winner -to display Congratulations! message
else {
```

TicTacToe.java

```
# Type Company (Not any process of the company of t
```

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