

```

package week06;

public class Week06Labs {
    //
    // Copyright (c) 2023 Promineo Tech
    // Author: Promineo Tech Academic Team
    // Subject: Tic Tac Toe Game – Lab
    // Java Week 06 Lab
    //
    package week06;

import java.util.Scanner;

public class week06
static String winner = "";
    static String player = "";

    //tic tac toe

    private static boolean checkInput(String readInput) {
        String[] validInput = { "1", "2", "3", "4",
"5", "6", "7", "8", "9" };
        for (String letter : validInput) {
            if (readInput.equals(letter)) {
                return true;
            }
        }
        return false;
    }

    public static void main(String[] args) {

        Scanner in = new Scanner(System.in);

        GameBoard gameBoard = new GameBoard();

        gameBoard.initialize();

        int squareNumber;

        int allSquares = 1;

        player = "X";

```

```

        System.out.println();
System.out.println("-----");
        System.out.println("    Tic Tac Toe!");
        System.out.println("    Turn One:  X ");

System.out.println("-----");
        System.out.println();

        gameBoard.display();

        while (winner.equals("") && (allSquares <= 9))
{
        System.out.println(player + "-- enter
a number designating the square to place an " + player + " in:");

        String readInput = in.nextLine();

        if (checkInput(readInput)) {
squareNumber = Integer.valueOf(readInput);

        if (squareNumber > 0 && squareNumber <= 9) {

                if (gameBoard.isValidSetSquare(squareNumber,
readInput, player)) {

                        if (player.equals("X")) {

                                player
= "O";

                                } else {

                                }

                                player
= "X";

                                }
allSquares++;

```

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gameBoard.display();

gameBoard.checkWinStatus();

winner =
    } else {

System.out.println("Square has already been filled.");

    }

    }

    } else {
        System.out.println("Invalid
input.");
    }

    }

    // Print End Of Game Message!
    System.out.println();

System.out.println("-----");

    System.out.println("  Game Over:");

    if (winner.equals("draw")) {
        System.out.println("  This game is a "
+ winner + "!");
    } else {
        System.out.println("
winner + " wins!");
    }

    System.out.println("-----");

    in.close();

}

}

```