```
import java.util.Scanner;
public class TicTacChallenge{
 public char[][] gameBoard;
  public char currentSymbol;
 public TicTacChallenge()
 {
   gameBoard = new char[3][3];
   currentSymbol = 'X';
   resetBoard();
   }
 public void resetBoard(){
   for (int i = 0; i < 3; i++){
     for (int j = 0; j < 3; j++){
       gameBoard[i][j] = '-';
```

```
}
 }
 }
public void showBoard(){
 System.out.println("-----");
 for (int i = 0; i < 3; i++){
   System.out.print("| ");
   for (int j = 0; j < 3; j++){
     System.out.print(gameBoard[i][j] + " | ");
   }
   System.out.println();
   System.out.println("----");
 }
}
```

```
boolean win = false;
boolean draw = false;
while (!win && !draw){
 showBoard();
 makeMove();
 win = findWinner();
 if (!win){
   draw = findDraw();
   if (!draw) {
     togglePlayer();
   }
```

}

public void initiateGame(){

```
}
   showBoard();
   if (win){
     System.out.println("Congrats! Player " + currentSymbol + " wins!");
   }
   else if (draw){
     System.out.println("It's a DRAW.");
   }
 }
 public void makeMove(){
   Scanner scan = new Scanner(System.in);
   int r, c;
   while(true){
     System.out.println("Player " + currentSymbol + ", make your move (row [1-3] and
column [1-3]): ");
```

```
r = scan.nextInt() - 1;
     c = scan.nextInt() - 1;
     if(r \ge 0 \&\& c \ge 0 \&\& r < 3 \&\& c < 3 \&\& gameBoard[r][c] == '-'){
       gameBoard[r][c] = currentSymbol;
       break;
     } else {
       System.out.println("Invalid move, try again.");
     }
   }
 }
  public boolean findWinner() {
   for (int i = 0; i < 3; i++) {
     if ((gameBoard[i][0] == currentSymbol && gameBoard[i][1] == currentSymbol &&
gameBoard[i][2] == currentSymbol) ||
       (gameBoard[0][i] == currentSymbol && gameBoard[1][i] == currentSymbol &&
gameBoard[2][i] == currentSymbol)) {
       return true;
     }
    }
    if ((gameBoard[0][0] == currentSymbol && gameBoard[1][1] == currentSymbol &&
gameBoard[2][2] == currentSymbol) ||
```

```
(gameBoard[0][2] == currentSymbol && gameBoard[1][1] == currentSymbol &&
gameBoard[2][0] == currentSymbol)) {
     return true;
    }
   return false;
 }
 public boolean findDraw() {
   for (int i = 0; i < 3; i++) {
     for (int j = 0; j < 3; j++) {
       if (gameBoard[i][j] == '-') {
         return false;
       }
      }
   }
```

```
return true;
}
public void togglePlayer(){
  if (currentSymbol == 'X') {
    currentSymbol = 'O';
   }
  else {
    currentSymbol = 'X';
 }
}
public static void main(String[]args){
```

```
TicTacChallenge challenge = new TicTacChallenge();
    challenge.initiateGame();
}
```