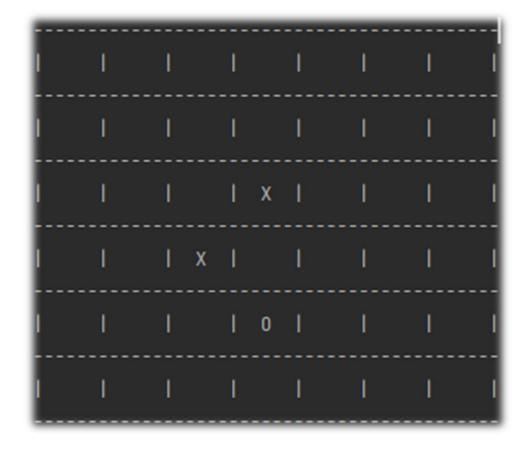
Tic Tac Toe Game



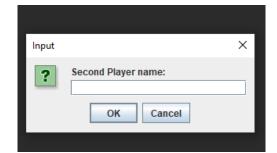
By: Mohamed Abdou Mabrouk

The Game

How to play:

When we start the game, the console will ask for the first and second players names:



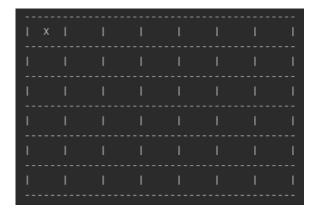


Then it will ask from the first player to choose the place to insert the letter:



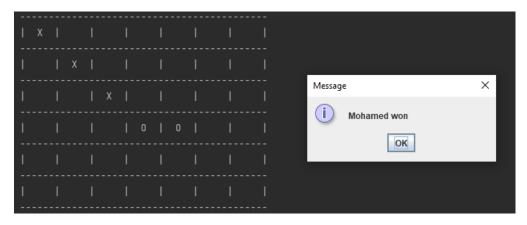


The letter will be inserted in the board:

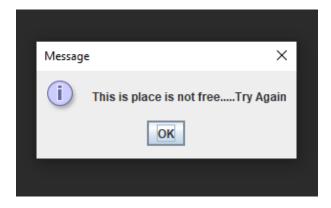


Rules:

Who get three letters in row first win's:



• You cannot play in the same place:



Syntax

The program has 4 classes: -

- Main
- Player
- Board
- Turn

1- Main:

```
| File East New Navigate Code Analyze Refactor Bold Run Tools St Window Help To Tate Too - main | Decision | D
```

In this class we run the main and keep the game running by while loop until the board is full or any of players wins.

First, the program takes the players name from by the console.

Then create two objects from the player class.

Second, in the outer loop the program initiates the board and print it, in the inner loop condition the program checks if the board is full or not, if it's not full checks if the 'O' player won or not, if he/she did not win, the 'X' player plays after that checks if the 'X' player won, if he/she did not, the program will keep repeat the previous steps in the while loop.

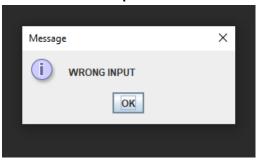
Back to the outer loop the program will ask if the players want to play again.

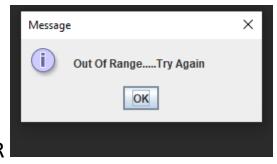
2- Player:

```
| Die Edit Vew Newigete Code Analyze Editator Build Rum Tools Qt Window Help Total Con-Playrepians
| The Tack Tools and Playres | Dispute | Disput
```

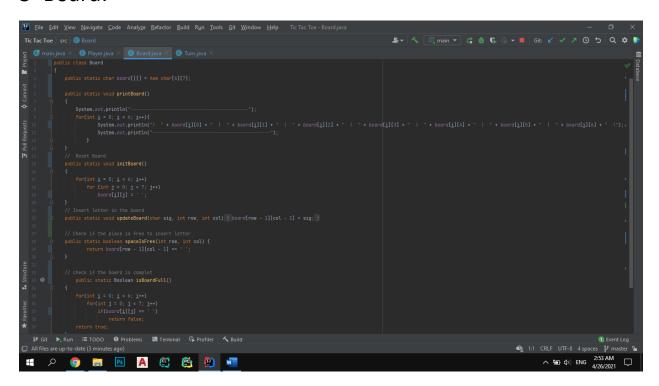
In this class constructor takes two parameters (name, letter) and set them.

Move method takes rows and column and set them in integers, then by try and catch the program check that if the input is not out of the range, if it not set them in them in the board if the place is free.





3-Board:



This class has the following methods:

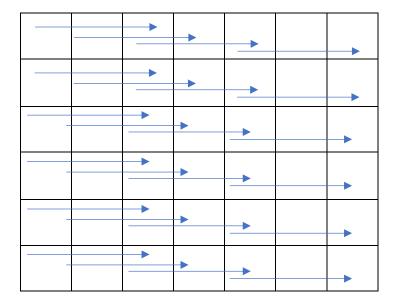
- 1- Print the board.
- 2- Initiate the board and reset it by set all its elements by spaces.
- 3- Update the board by setting the letter in the element.
- 4- Check if space is free.
- 5- Check if the board is full.

4- Turn:

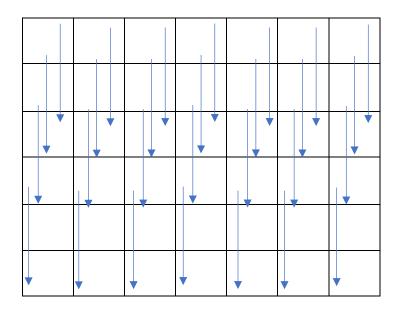
```
| Big Ent | Yew | Navigut | Code | Analyze | Befactor | Build | Rum | Tools | Gt | Window | Help | TacTacTacnJunyas | State | TacTacnJunyas | TacTacnJuny
```

This class checks if the player had won or not by:

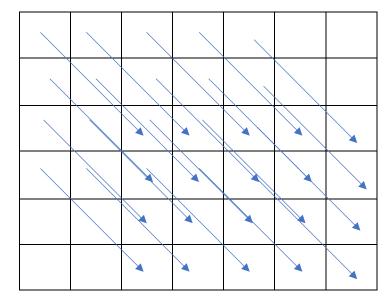
1- Checking Rows:



2- Checking Columns:



3- Checking First Diagonal:



4- Checking Second Diagonal:

