#### 1. description of the exercise

#### 1. Connect Four

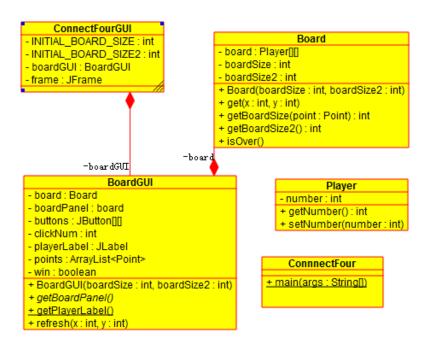
Connect Four is a two-player game. The discs of the first player are marked with X, and the discs of the second player are marked with O. The players take turns dropping their disc from the top into a *n*-column, *m*-row vertically suspended grid. The pieces fall straight down, occupying the lowest available space within the column. The objective of the game is to be the first to form a horizontal, vertical, or diagonal line of four of one's own discs. If the grid becomes full, the result is draw.

Implement this game, and let the grid size be selectable (8x5, 10x6, 12x7). The game should recognize if it is ended, and it has to show the name of the winner in a message box (if the game is not ended with draw), and automatically begin a new game.

## 2. short description how to use your program (user doc)

- 1. This game is called connect four for two players, which aim is to make the FIRST (winner) to form a horizontal, vertical, or diagonal line of Four of one's own discs.
- 2. The first player is marked with X in the game while the second player is marked with O in the game
- 3. Every time each player clicked on each grip, the disc will be dropped from the top into a *n*-column, *m*-row vertically suspended grid. The pieces fall straight down, occupying the lowest available space within the column.
- 4. If the grid becomes full with no winner, then result is draw.

## 3. UML class diagram (made with a dedicated UML tool)



## 4. short descriptions of the implemented methods

# 1. • list of test cases you have tested (at least 10 pieces)

