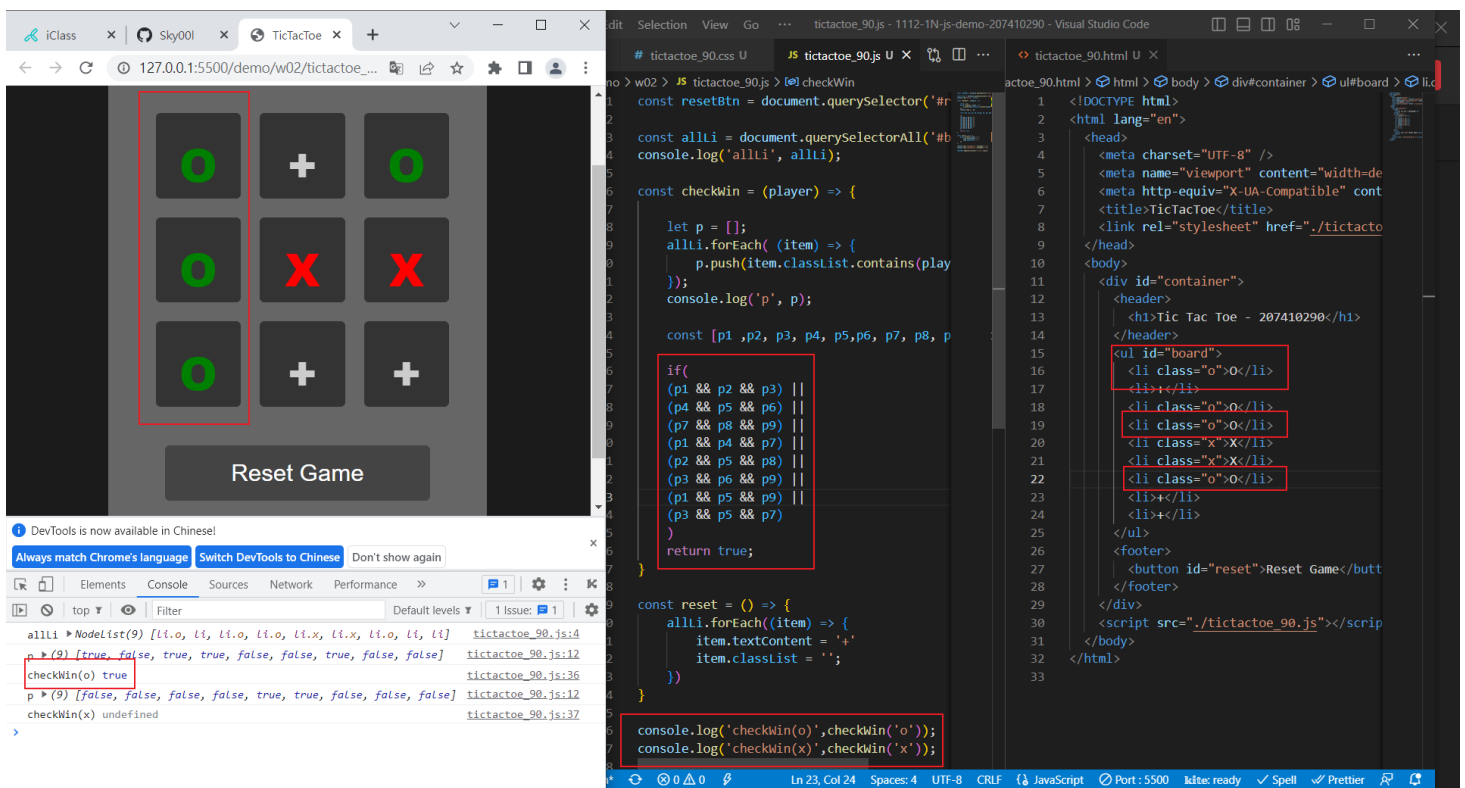
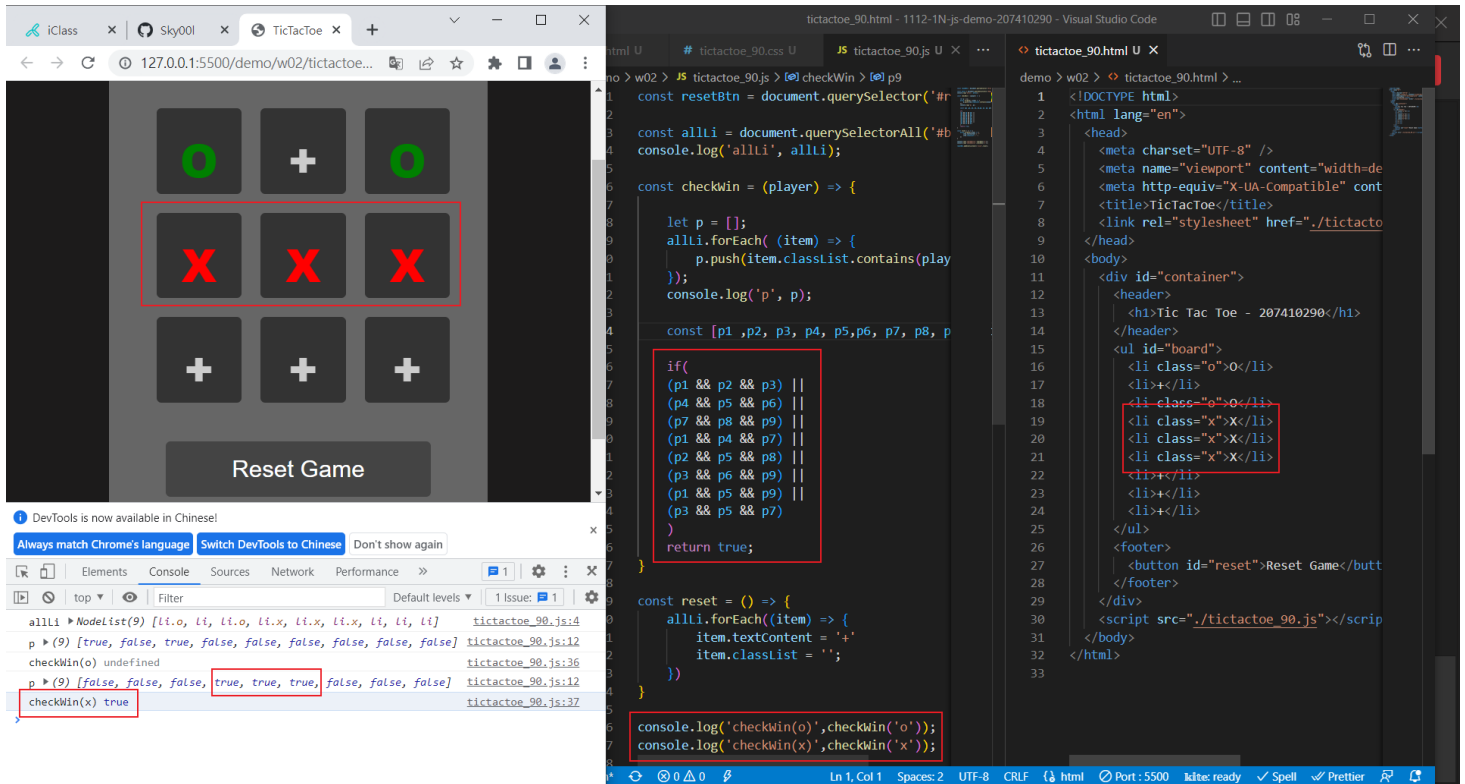


Github URL

W02-P1: checkWin to determine who wins, you need to create four images as said in class



Visual Studio Code interface showing the TicTacToe game development. The left pane displays the game board, which is a 3x3 grid. The board state is as follows:

X	+	+
O	X	+
+	+	X

The board is highlighted with a red diamond shape. Below the board is a "Reset Game" button. The right pane shows the HTML and JavaScript code for the game.

HTML Code (tictactoe_90.html):

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>TicTacToe</title>
  <link rel="stylesheet" href="/tictactoe_90.css">
</head>
<body>
  <div id="container">
    <div id="board">
      <li class="x">X</li>
      <li></li>
      <li></li>
      <li class="o">O</li>
      <li class="x">X</li>
      <li></li>
      <li></li>
      <li></li>
      <li class="x">X</li>
    </div>
    <button id="reset">Reset Game</button>
  </div>
  <script src="/tictactoe_90.js"></script>
</body>
</html>
```

JavaScript Code (tictactoe_90.js):

```
const resetBtn = document.querySelector('#reset');
const allLi = document.querySelectorAll('#board li');

const checkWin = (player) => {
  let p = [];
  allLi.forEach((item) => {
    p.push(item.classList.contains(player));
  });
  console.log('p', p);

  const [p1, p2, p3, p4, p5, p6, p7, p8, p9] = p;

  if(
    (p1 && p2 && p3) ||
    (p4 && p5 && p6) ||
    (p7 && p8 && p9) ||
    (p1 && p4 && p7) ||
    (p2 && p5 && p8) ||
    (p3 && p6 && p9) ||
    (p1 && p5 && p9) ||
    (p3 && p5 && p7)
  ) {
    return true;
  }
}

const reset = () => {
  allLi.forEach((item) => {
    item.textContent = '+';
    item.classList = '';
  });
}

console.log('checkWin(o)', checkWin('o'));
console.log('checkWin(x)', checkWin('x'));
```

The console output shows the following log messages:

```
allLi > NodeList(9) [li.x, li, li, li.o, li.x, li, li, li, li.x]
p > (9) [false, false, false, true, false, false, false, false, false]
checkWin(o) undefined
p > (9) [true, false, false, false, true, false, false, false, true]
checkWin(x) true
```

Visual Studio Code interface showing the TicTacToe game development. The left pane displays the game board, which is a 3x3 grid. The board state is as follows:

X	+	O
+	O	+
O	+	X

The board is highlighted with a red diamond shape. Below the board is a "Reset Game" button. The right pane shows the HTML and JavaScript code for the game.

HTML Code (tictactoe_90.html):

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>TicTacToe</title>
  <link rel="stylesheet" href="/tictactoe_90.css">
</head>
<body>
  <div id="container">
    <div id="board">
      <li class="x">X</li>
      <li></li>
      <li class="o">O</li>
      <li></li>
      <li class="o">O</li>
      <li></li>
      <li></li>
      <li></li>
      <li class="x">X</li>
    </div>
    <button id="reset">Reset Game</button>
  </div>
  <script src="/tictactoe_90.js"></script>
</body>
</html>
```

JavaScript Code (tictactoe_90.js):

```
const resetBtn = document.querySelector('#reset');
const allLi = document.querySelectorAll('#board li');

const checkWin = (player) => {
  let p = [];
  allLi.forEach((item) => {
    p.push(item.classList.contains(player));
  });
  console.log('p', p);

  const [p1, p2, p3, p4, p5, p6, p7, p8, p9] = p;

  if(
    (p1 && p2 && p3) ||
    (p4 && p5 && p6) ||
    (p7 && p8 && p9) ||
    (p1 && p4 && p7) ||
    (p2 && p5 && p8) ||
    (p3 && p6 && p9) ||
    (p1 && p5 && p9) ||
    (p3 && p5 && p7)
  ) {
    return true;
  }
}

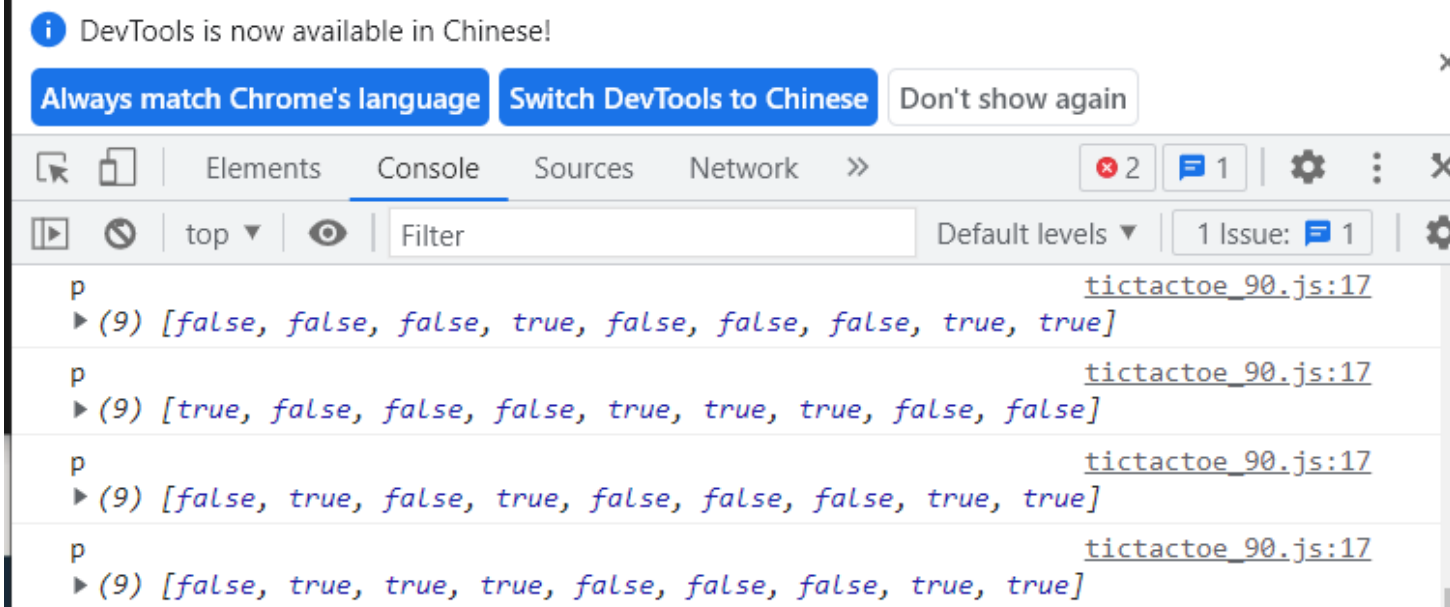
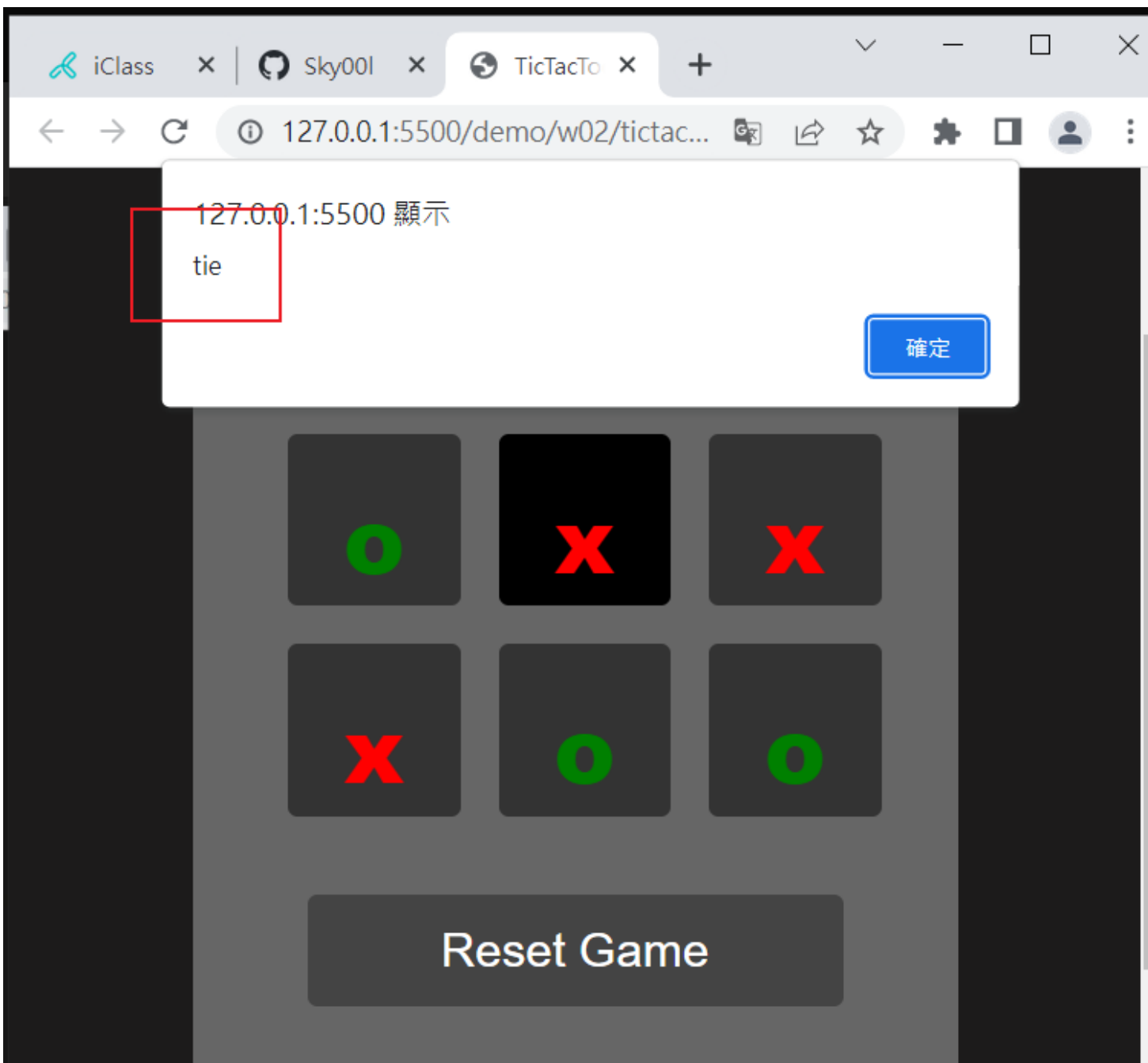
const reset = () => {
  allLi.forEach((item) => {
    item.textContent = '+';
    item.classList = '';
  });
}

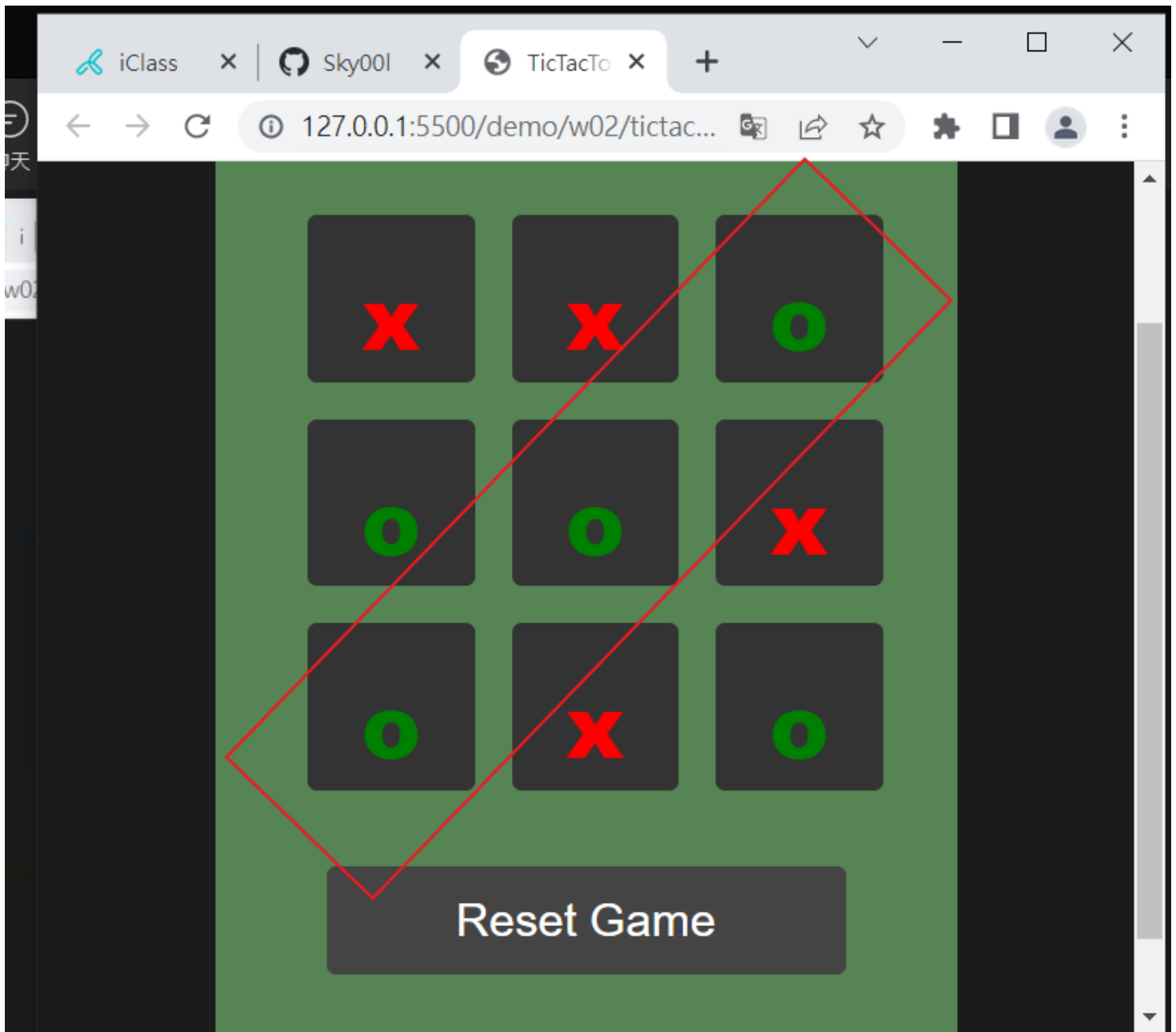
console.log('checkWin(o)', checkWin('o'));
console.log('checkWin(x)', checkWin('x'));
```

The console output shows the following log messages:

```
allLi > NodeList(9) [li.x, li, li, li.o, li, li.o, li, li.o, li.x]
p > (9) [false, false, true, false, true, false, true, false, false]
checkWin(o) true
p > (9) [true, false, false, false, false, false, false, false, true]
checkWin(x) undefined
```

W02-P2: O win (9 times), X wins (8 times), tie (9 times)





i DevTools is now available in Chinese!

Always match Chrome's language

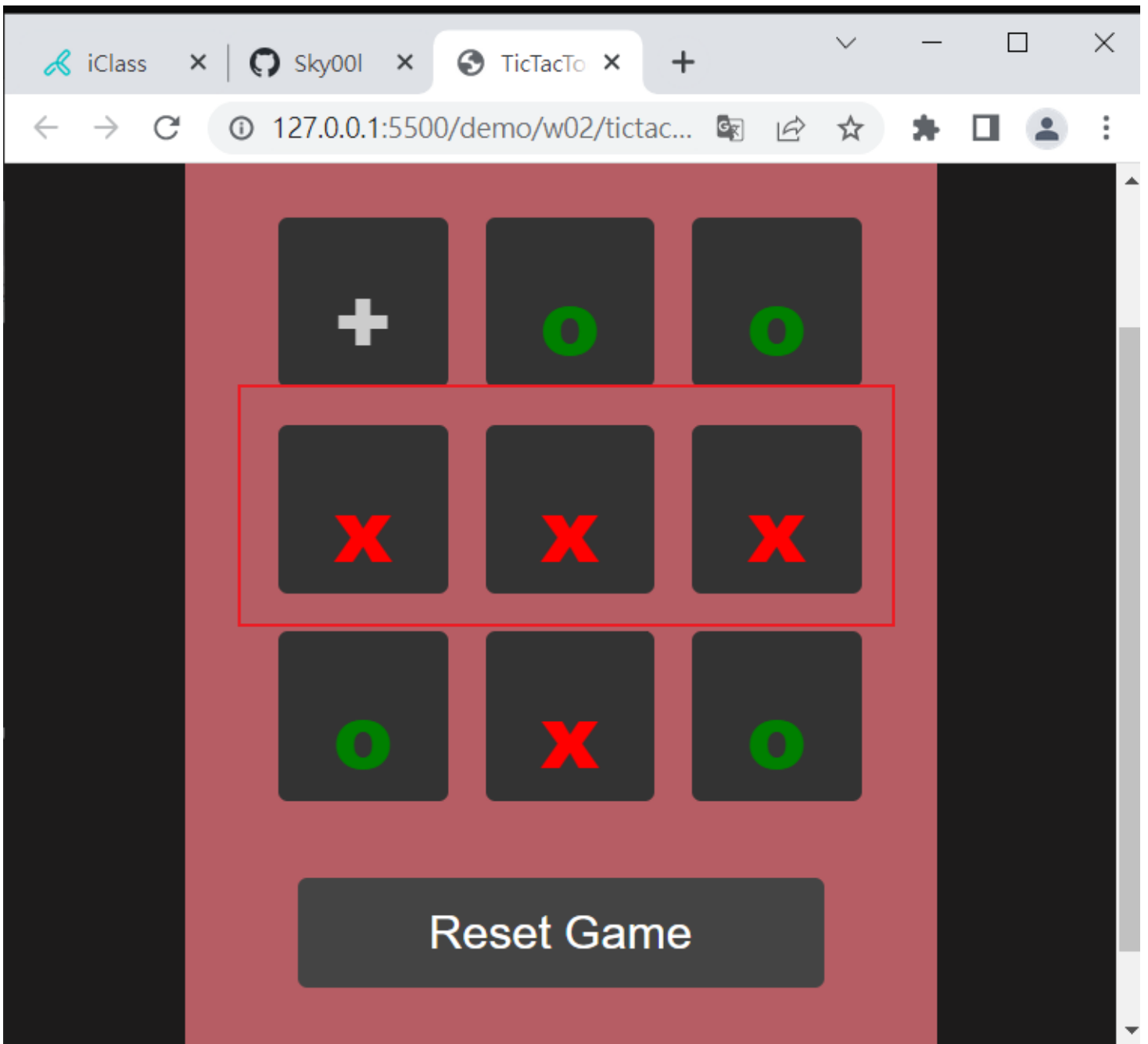
Switch DevTools to Chinese

Don't show again

Elements Console Sources Network >>

top Filter Default levels 1 Issue: 1 3 hidden

```
p tictactoe_90.js:17
▶ (9) [false, true, false, false, false, true, false, true, false]
p tictactoe_90.js:17
▶ (9) [false, false, false, true, true, false, true, false, true]
p tictactoe_90.js:17
▶ (9) [true, true, false, false, false, true, false, true, false]
p tictactoe_90.js:17
▶ (9) [false, false, true, true, true, false, true, false, true]
```



DevTools is now available in Chinese!

Always match Chrome's language

Switch DevTools to Chinese

Don't show again

Elements Console Sources Network >> 2 1

top Filter Default levels 1 Issue: 1

```
p tictactoe_90.js:17
▶ (9) [false, true, true, false, false, false, false, false, true]

p tictactoe_90.js:17
▶ (9) [false, false, false, false, true, true, false, true, false]

p tictactoe_90.js:17
▶ (9) [false, true, true, false, false, false, true, false, true]

p tictactoe_90.js:17
▶ (9) [false, false, false, true, true, true, false, true, false]
```

下午 08:32 鍾興臺

w02-p2-1.png