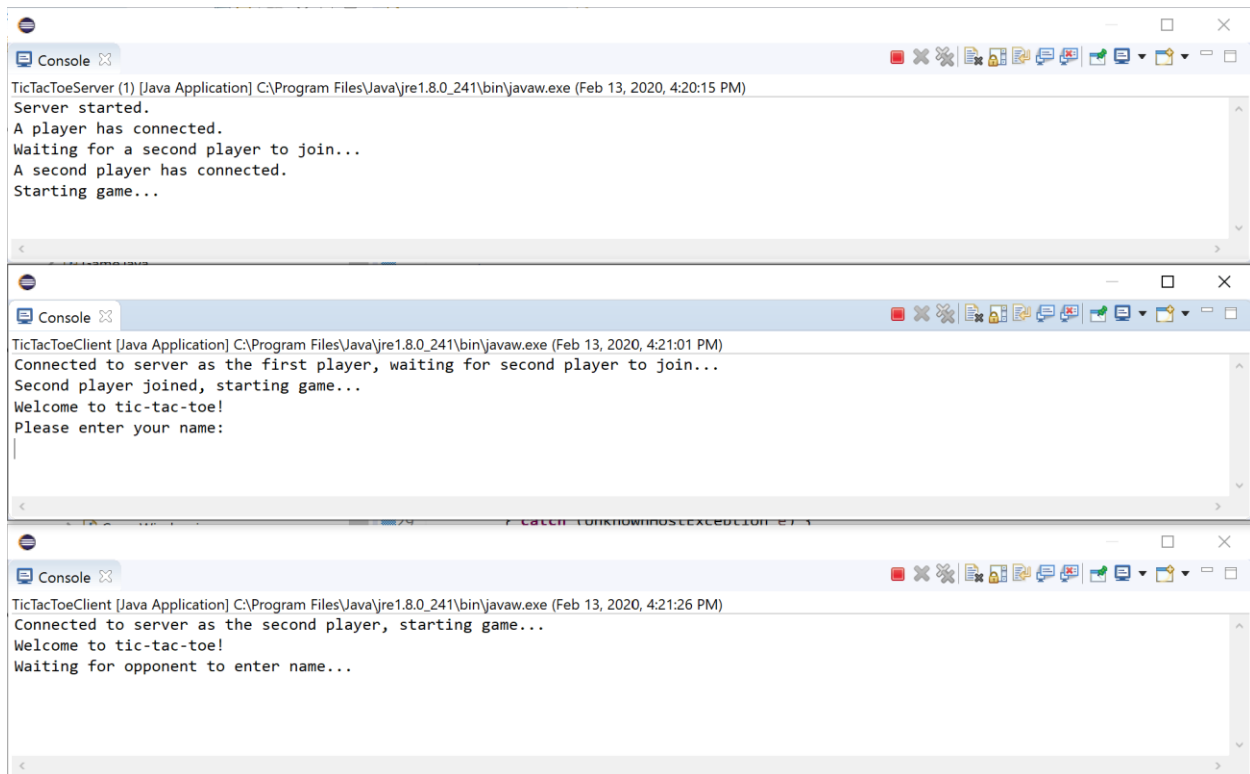


When 2 clients have connected to the server:



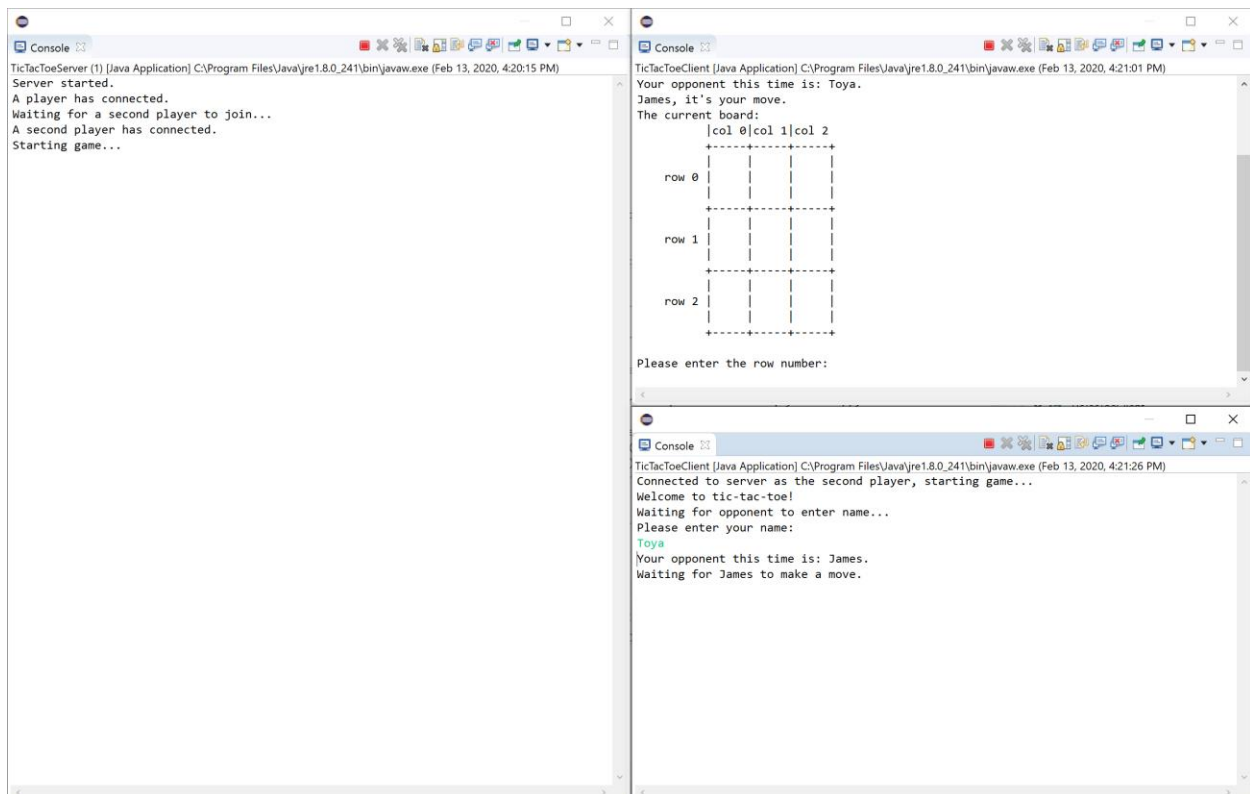
The image displays three separate console windows from a Windows operating system, each showing the output of a Java application. The top window is titled 'TicTacToeServer (1) [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:20:15 PM)'. Its output shows the server starting, a first player connecting, waiting for a second player, a second player connecting, and finally starting the game. The middle window is titled 'TicTacToeClient [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:21:01 PM)'. It shows the client connecting as the first player, waiting for the second player to join, the second player joining, and the client being welcomed to the game. It then prompts the user to enter their name. The bottom window is also titled 'TicTacToeClient [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:21:26 PM)'. It shows the client connecting as the second player, starting the game, being welcomed, and then waiting for the opponent to enter a name.

```
TicTacToeServer (1) [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:20:15 PM)
Server started.
A player has connected.
Waiting for a second player to join...
A second player has connected.
Starting game...

TicTacToeClient [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:21:01 PM)
Connected to server as the first player, waiting for second player to join...
Second player joined, starting game...
Welcome to tic-tac-toe!
Please enter your name:

TicTacToeClient [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:21:26 PM)
Connected to server as the second player, starting game...
Welcome to tic-tac-toe!
Waiting for opponent to enter name...
```

When both players have entered in their names:



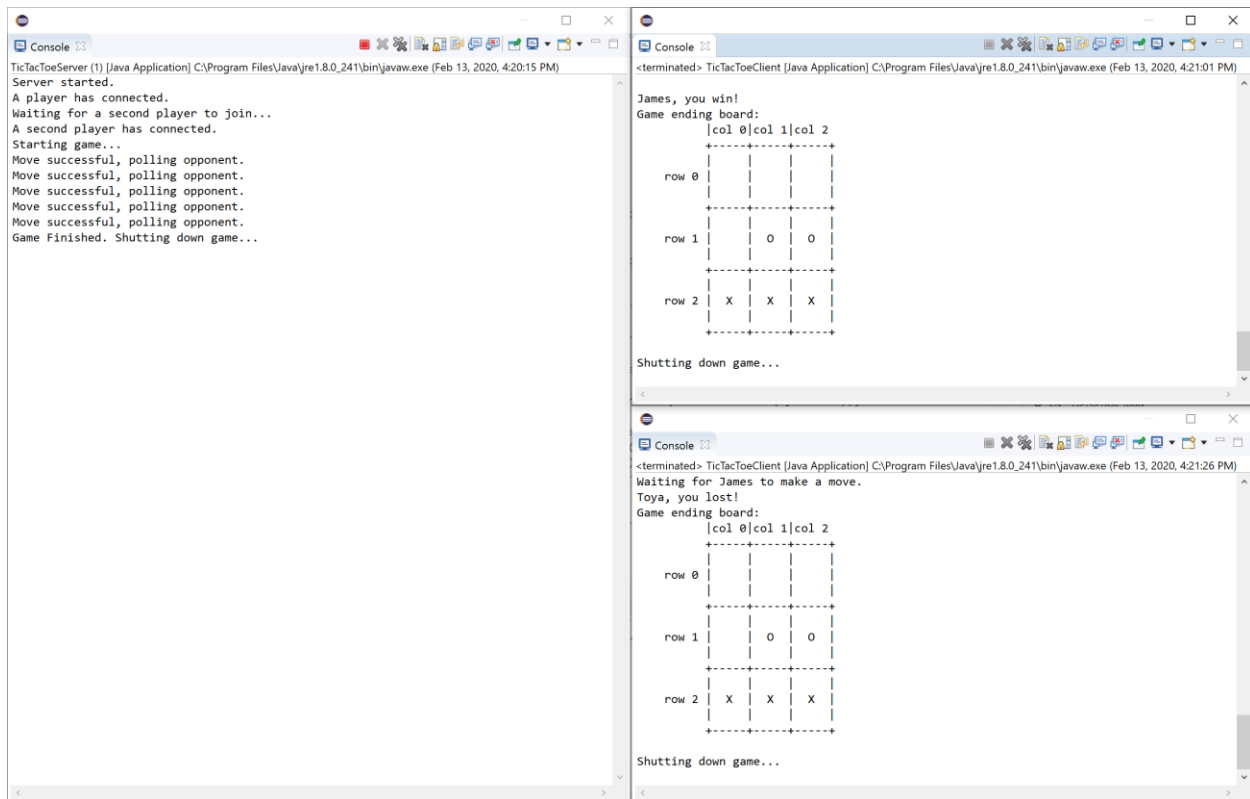
The image displays three console windows showing the progression of the game. The leftmost window is the same server console as in the previous image, showing the game has started. The middle window is the first client console, showing it has received the opponent's name 'Toya' and is prompting the user to enter a move. It displays a 3x3 tic-tac-toe board with columns labeled 'col 0', 'col 1', and 'col 2', and rows labeled 'row 0', 'row 1', and 'row 2'. The board is currently empty. The rightmost window is the second client console, showing it has received the first player's name 'James' and is waiting for James to make a move.

```
TicTacToeServer (1) [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:20:15 PM)
Server started.
A player has connected.
Waiting for a second player to join...
A second player has connected.
Starting game...

TicTacToeClient [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:21:01 PM)
Your opponent this time is: Toya.
James, it's your move.
The current board:
|col 0|col 1|col 2|
+---+---+---+
row 0 |   |   |   |
+---+---+---+
row 1 |   |   |   |
+---+---+---+
row 2 |   |   |   |
+---+---+---+
Please enter the row number:

TicTacToeClient [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:21:26 PM)
Connected to server as the second player, starting game...
Welcome to tic-tac-toe!
Waiting for opponent to enter name...
Please enter your name:
Toya
Your opponent this time is: James.
Waiting for James to make a move.
```

Game ending screen (client applications have closed, but the server keeps running):



The image shows two console windows side-by-side. The left window is titled 'TicTacToeServer (1) [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:20:15 PM)'. It displays the following text:

```
Server started.  
A player has connected.  
Waiting for a second player to join...  
A second player has connected.  
Starting game...  
Move successful, polling opponent.  
Move successful, polling opponent.  
Move successful, polling opponent.  
Move successful, polling opponent.  
Move successful, polling opponent.  
Game Finished. Shutting down game...
```

The right window is titled '<terminated> TicTacToeClient [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Feb 13, 2020, 4:21:01 PM)'. It displays the following text:

```
James, you win!  
Game ending board:  
|col 0|col 1|col 2|  
+---+---+---+  
row 0 |   |   |   |  
+---+---+---+  
row 1 |   | 0 | 0 |  
+---+---+---+  
row 2 | X | X | X |  
+---+---+---+  
Shutting down game...
```

Below this, the same text is repeated, indicating a second game state or a duplicate of the first.

```
James, you win!  
Game ending board:  
|col 0|col 1|col 2|  
+---+---+---+  
row 0 |   |   |   |  
+---+---+---+  
row 1 |   | 0 | 0 |  
+---+---+---+  
row 2 | X | X | X |  
+---+---+---+  
Shutting down game...
```