|  |  |  |
| --- | --- | --- |
| **Testing move(row,column)** | **Input Value** | **Expected Value** |
| Move played at row 2 column3 | Move(2,2) | “Pass” |
| Values of row and column in the needed grid | Move(8,9) | “IndexOutOfBound” |
| Negative row values | Move(-1,2) | “IllegalArguementException” |
| Negative column values | Move(1,-2) | “IllegalarguementException” |
| If player already exists | Move(2,2) | Should throw an exception if the other player or the player himself has made a move there |
| If game over | Move(2,2) | “IllegalStateException” |

|  |  |  |
| --- | --- | --- |
| **Testing getTurn()** | **Input Value** | **Expected Value** |
| Player 2 gets turn after player 1 | getTurn() | pass |
| Game is over | getTurn() | “IllegalStateException” |
| Player asks for the turn when another player is taking his turn | getTurn() | “IllegalStateException” |

|  |  |  |
| --- | --- | --- |
| Testing isGameOver() | Input Value | Expected Value |
| Player 1 wins | isGameOver() | True |
| Player 2 wins | isGameOver() | False |
| Game is Tied | isGameOver() | Null |

|  |  |  |
| --- | --- | --- |
| Testing getWinner() | Input Value | Expected Value |
| Player 1 wins | getWinner() | X | O | O  X | X | O  X | O | null  Player 1 Wins |
| Player 1 wins and all markings are at different array indices | getWinner() | “IllegalStateException” |
| Player 1 wins and all markings are at same indices, but player 2 is returned | getWinner() | “Exception” |

|  |  |  |
| --- | --- | --- |
| Testing getMarkAt(row,column) | Input Value | Expected Value |
| A player has marked X at row 2 column 0 | getMarkAt(2,0) | X |
| Negative row value | getMarkAt(-2,0) | “IllegalArguementException” |
| Negative Column Value | getMarkAt(0,-2) | “IllegalArguementException” |
| Out of bound value | getMarkAt(8,9) | “IndexOutOfBound” |

|  |  |  |
| --- | --- | --- |
| Testing getBoard() | Input Value | Expected value |
| Returns state of the board | getBoard() | X | O | O  X | X | O  X | O | null |
| Correct state should be returned with correct indices | getBoard() | “Exception” |