22/12/2023, 15:54 tic tac toe

```
def print board(board):
In [3]:
             print("\n".join(map(str, board)))
        def check winner(board):
            for i in range(3):
                if board[i][0] == board[i][1] == board[i][2] != ' ':
                     return True
                if board[0][i] == board[1][i] == board[2][i] != ' ':
                     return True
            if board[0][0] == board[1][1] == board[2][2] != ' ':
                return True
            if board[0][2] == board[1][1] == board[2][0] != ' ':
                return True
             return False
        def tic_tac_toe():
             board = [[' ']*3 for _ in range(3)]
             player = 'X'
            for in range(9):
                print_board(board)
                print("Player", player, "turn")
                row = int(input("Enter row: "))
                col = int(input("Enter column: "))
                if board[row][col] != ' ':
                     print("Invalid move, please try again")
                     continue
                board[row][col] = player
                if check_winner(board):
                     print_board(board)
                     print("Player", player, "wins!")
                     return
                player = '0' if player == 'X' else 'X'
             print("It's a tie!")
        tic_tac_toe()
```

22/12/2023, 15:54 tic tac toe

```
Player X turn
Enter row: 1
Enter column: 1
['',','','']
['','X','']
Player O turn
Enter row: 2
Enter column: 1
[' ', ' ', ' ']
[' ', 'X', ' ']
[' ', '0', ' ']
Player X turn
Enter row: 0
Enter column: 2
[' ', ' ', 'X']
[' ', 'X', ' ']
[' ', '0', ' ']
Player 0 turn
Enter row: 2
Enter column: 0
[' ', ' ', 'X']
[' ', 'X', ' ']
['0', '0', ' ']
Player X turn
Enter row: 1
Enter column: 1
Invalid move, please try again
[' ', ' ', 'X']
[' ', 'X', ' ']
['0', '0', ' ']
Player X turn
Enter row: 0
Enter column: 1
[' ', 'X', 'X']
[' ', 'X', ' ']
['0', '0', ' ']
Player O turn
Enter row: 2
Enter column: 2
[' ', 'X', 'X']
[' ', 'X', ' ']
['0', '0', '0']
Player O wins!
```

In [ ]: