

```
# Tic Tac Toe game in Python
```

```
# Create the board
```

```
board = [' ' for _ in range(9)]
```

```
# Function to print the board
```

```
def print_board():
```

```
    print(f'{board[0]} | {board[1]} | {board[2]}')
```

```
    print('--+---+--')
```

```
    print(f'{board[3]} | {board[4]} | {board[5]}')
```

```
    print('--+---+--')
```

```
    print(f'{board[6]} | {board[7]} | {board[8]}')
```

```
# Function to check if any player has won
```

```
def check_win(player):
```

```
    # Check rows, columns and diagonals
```

```
    win_conditions = [(0, 1, 2), (3, 4, 5), (6, 7, 8), # Rows
```

```
                      (0, 3, 6), (1, 4, 7), (2, 5, 8), # Columns
```

```
                      (0, 4, 8), (2, 4, 6)] # Diagonals
```

```
    return any(board[a] == board[b] == board[c] == player for a, b, c in win_conditions)
```

```
# Function to check if the board is full
```

```
def check_draw():
```

```
    return ' ' not in board
```

```
# Function to play the game
```

```
def play_game():
```

```
    current_player = 'X'
```

```
    while True:
```

```
        print_board()
```

```
        try:
```

```

move = int(input(f"Player {current_player}, enter your move (1-9): ")) - 1

if board[move] == ' ':
    board[move] = current_player

    if check_win(current_player):
        print_board()
        print(f'Player {current_player} wins!')
        break

    elif check_draw():
        print_board()
        print('The game is a draw!')
        break

    current_player = 'O' if current_player == 'X' else 'X' # Switch player
else:
    print('Invalid move! The spot is already taken.')

except (IndexError, ValueError):
    print('Invalid input! Please enter a number between 1 and 9.')

```

# Start the game

play\_game()

```

  | | |
--+--+--
  | | |
--+--+--
  | | |
Player X, enter your move (1-9): 1
X | | |
--+--+--
  | | |
--+--+--
  | | |
Player O, enter your move (1-9): 5
X | | |
--+--+--
  | O |
--+--+--
  | | |
Player X, enter your move (1-9): 3
X | | X
--+--+--
  | O |
--+--+--
  | | |
Player O, enter your move (1-9): 2
X | O | X
--+--+--
  | O |
--+--+--
  | | |
Player X, enter your move (1-9): 8
X | O | X
--+--+--
  | O |
--+--+--
  | X |
Player O, enter your move (1-9): 4

```

```
| | |
Player X, enter your move (1-9): 8
X | O | X
-----
| O |
-----
| X |
Player O, enter your move (1-9): 4
X | O | X
-----
O | O |
-----
| X |
Player X, enter your move (1-9): 6
X | O | X
-----
O | O | X
-----
| X |
Player O, enter your move (1-9): 9
X | O | X
-----
O | O | X
-----
| X | O
Player X, enter your move (1-9): 7
X | O | X
-----
O | O | X
-----
X | X | O
The game is a draw!

...Program finished with exit code 0
Press ENTER to exit console.
```