

tictactoe.py > check_win

```
1  board = [' ' for _ in range(9)]
2
3  def print_board():
4      print('-----')
5      print('|', board[0], '|', board[1], '|', board[2], '|')
6      print('-----')
7      print('|', board[3], '|', board[4], '|', board[5], '|')
8      print('-----')
9      print('|', board[6], '|', board[7], '|', board[8], '|')
10     print('-----')
11
12  def check_win(player):
13
14     for i in range(0, 9, 3):
15         if board[i] == board[i+1] == board[i+2] == player:
16             return True
17
18     for i in range(3):
19         if board[i] == board[i+3] == board[i+6] == player:
20             return True
21
22     if board[0] == board[4] == board[8] == player:
23         return True
24     if board[2] == board[4] == board[6] == player:
25         return True
26     return False
27
28  def check_draw():
29     return ' ' not in board
```

```
28 def check_draw():
29     return ' ' not in board
30
31 def play_game():
32     print("Welcome to Tic Tac Toe!")
33     print_board()
34
35     current_player = 'X'
36     while True:
37         print("Player", current_player)
38         position = int(input("Enter a position (1-9): ")) - 1
39
40         if board[position] == ' ':
41             board[position] = current_player
42             print_board()
43
44             if check_win(current_player):
45                 print("Player", current_player, "wins!")
46                 break
47             elif check_draw():
48                 print("It's a draw!")
49                 break
50
51             current_player = 'O' if current_player == 'X' else 'X'
52         else:
53             print("Invalid move. Try again.")
54
55
56
57 play_game()
```