```
def print_board(board):
2 3 4 5 6
        for row in board:
            print(" | ".join(row))
            print("-" * 9)
    def check winner(board, player):
7
        for i in range(3):
8
            if all(board[i][j] == player for j in range(3)) or \
               all(board[j][i] == player for j in range(3)):
9
10
                return True
11
12
        if all(board[i][i] == player for i in range(3)) or \
13
           all(board[i][2-i] == player for i in range(3)):
14
            return True
15
        return False
16
17
    def tic tac toe():
        board = [[""]*3 for _ in range(3)]
18
        players = ['X', '0']
19
20
        moves = 0
21
        print("Tic-Tac-Toe Game (2 Players)\n")
22
        print board(board)
23
24
        while moves < 9:
25
            player = players[moves % 2]
26
            try:
27
                row = int(input(f"Player {player}, enter row (0-2): "))
28
                col = int(input(f"Player {player}, enter column (0-2): "))
29
            except ValueError:
30
                print("Invalid input! Enter numbers 0-2.")
31
                continue
```

```
32
33
             if \emptyset \le \text{row} \le 2 and \emptyset \le \text{col} \le 2:
34
                  if board[row][col] == " ":
35
                      board[row][col] = player
36
                      moves += 1
37
                      print board(board)
38
                      if check_winner(board, player):
                           print(f"Player {player} wins!")
39
40
                           return
41
                  else:
42
                      print("Cell already occupied! Try again.")
43
             else:
44
                  print("Invalid position! Enter numbers between 0 and 2.")
         print("It's a tie!")
45
46
47
    tic tac toe()
48
```

```
>>> %Run -c $EDITOR CONTENT
  Tic-Tac-Toe Game (2 Players)
  Player X, enter row (0-2): 1
  Player X, enter column (0-2): 1
    | X |
  Player 0, enter row (0-2): 2
  Player O, enter column (0-2): 2
    | X |
     0
  Player X, enter row (0-2): 0
  Player X, enter column (0-2): 2
    | X
    | X |
     0
  Player O, enter row (0-2): 2
  Player O, enter column (0-2): 0
    | X
    X
```

```
Player X, enter row (0-2): 2
  Player X, enter column (0-2): 1
     | X
     X
  0 \mid x \mid 0
  Player 0, enter row (0-2): 0
  Player O, enter column (0-2): 1
     0 X
     | X |
  0 \mid x \mid 0
  Player X, enter row (0-2): 1
  Player X, enter column (0-2): 0
     0 X
  X \mid X \mid
  0 \mid x \mid 0
  Player 0, enter row (0-2): 1
  Player O, enter column (0-2): 2
     0 X
  x \mid x \mid o
  0 \mid x \mid 0
  Player X, enter row (0-2): 0
  Player X, enter column (0-2): 0
  X \mid O \mid X
  x \mid x \mid o
  0 \mid x \mid 0
  It's a tie!
>>>
```