Tic Tac Toe Game:

```
board = [['-' for _ in range(3)] for _ in range(3)]
def is board filled(board):
   for row in board:
       for element in row:
           if element == '-':
def check_win(board, player):
   for row in board:
       if all(element == player for element in row):
   for col in range(len(board[0])):
       if all(board[row][col] == player for row in range(len(board))):
   if all(board[i][i] == player for i in range(len(board))):
   if all(board[i][len(board) - i - 1] == player for i in
range(len(board))):
def show board(board):
   for row in board:
       print(" ".join(row))
   print() # Add a blank line after the board
import random
```

```
def start game(board):
   current_player = random.choice(['X', 'O'])
       print(f"Player {current_player}'s turn.")
            row = int(input("Enter row (0-2): "))
            col = int(input("Enter column (0-2): "))
            print("Invalid input. Please enter integers between 0 and 2.")
        if 0 <= row <= 2 and 0 <= col <= 2:
            if board[row][col] == '-':
                board[row][col] = current player
                show board(board)
                if check_win(board, current_player):
                    print(f"Player {current_player} wins!")
                if is_board_filled(board):
                    print("It's a draw!")
                current player = '0' if current player == 'X' else 'X'
                print("Invalid move. Cell already occupied. Try again.")
            print("Invalid input. Please enter numbers between 0 and 2.")
show board(board)
start game(board)
```

OUTPUT:

- Draw

```
Player O's turn.
Enter row (0-2): 0
Enter column (0-2): 0
Player X's turn.
Enter row (0-2): 1
Enter column (0-2): 1
0 - -
- X -
Player O's turn.
Enter row (0-2): 2
Enter column (0-2): 2
Player X's turn.
Enter row (0-2): 2
Enter column (0-2): 0
Player 0's turn.
Enter row (0-2): 1
Enter column (0-2): 0
0 - -
0 X -
X - 0
Player X's turn.
Enter row (0-2): 0
Enter column (0-2): 1
0 X -
0 X -
X - 0
Player O's turn.
Enter row (0-2): 0
Enter column (0-2): 2
O X O
O X -
X - O
Player X's turn.
Enter row (0-2): 1
Enter column (0-2): 2
O X O
O X X
```

```
Player X's turn.
Enter row (0-2): 0
Enter column (0-2): 0
X - -
Player 0's turn.
Enter row (0-2): 1
Enter column (0-2): 0
0 - -
Player X's turn.
Enter row (0-2): 1
Enter column (0-2): 1
X - -
0 X -
Player 0's turn.
Enter row (0-2): 2
Enter column (0-2): 1
X - -
0 X -
- 0 -
Player X's turn.
Enter row (0-2): 2
Enter column (0-2): 2
0 X -
- 0 X
Player X wins!
```

3. Occupying the same position

```
Player X's turn.
Enter row (0-2): 0
Enter column (0-2): 0
X - -
Player 0's turn.
Enter row (0-2): 1
Enter column (0-2): 2
- - 0
Player X's turn.
Enter row (0-2): 1
Enter column (0-2): 1
X - -
- X 0
Player 0's turn.
Enter row (0-2): 2
Enter column (0-2): 2
- X O
- - 0
Player X's turn.
Enter row (0-2): 1
Enter column (0-2): 1
Invalid move. Cell already occupied. Try again.
Player X's turn.
Enter row (0-2):
```