

```

import random

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

def print_board():
    print()
    for i in range(3):
        print(board[i*3], "|", board[i*3+1], "|", board[i*3+2])
        if i < 2:
            print("---+---+---")
    print()

def check_winner(player):
    win_positions = [
        (0,1,2), (3,4,5), (6,7,8),
        (0,3,6), (1,4,7), (2,5,8),
        (0,4,8), (2,4,6)
    ]
    for a, b, c in win_positions:
        if board[a] == board[b] == board[c] == player:
            return True
    return False

def is_draw():
    return ' ' not in board

def human_move():
    while True:
        move = input("Enter your move (0-8): ")

        if not move.isdigit():
            print("Enter a number between 0 and 8")
            continue

        move = int(move)

        if move < 0 or move > 8:
            print("Number must be between 0 and 8")
            continue

        if board[move] != ' ':
            print("This place is already taken")
            continue

        board[move] = 'X'
        break

def ai_move():
    available = [i for i in range(9) if board[i] == ' ']
    move = random.choice(available)

```

```

board[move] = 'O'
print("AI chose position:", move)

# ----- GAME LOOP -----
print("Welcome to Tic Tac Toe!")
print("You are X, AI is O")

while True:
    print_board()
    human_move()

    if check_winner('X'):
        print_board()
        print("🏆 You WIN!")
        break

    if is_draw():
        print_board()
        print("🤝 It's a DRAW!")
        break

    ai_move()

    if check_winner('O'):
        print_board()
        print("🏆 AI WINS!")
        break

    if is_draw():
        print_board()
        print("🤝 It's a DRAW!")
        break

```

Windows PowerShell

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Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\Users\Nagaveni> cd oneDrive\Desktop\tic_tak_toe.py
PS C:\Users\Nagaveni\oneDrive\Desktop\tic_tak_toe.py> dir
```

Directory: C:\Users\Nagaveni\oneDrive\Desktop\tic_tak_toe.py

Mode	LastWriteTime	Length	Name
-a---l	25-01-2026 19:39	1787	tic_tac_toe.py

```
PS C:\Users\Nagaveni\oneDrive\Desktop\tic_tak_toe.py> python tic_tac_toe.py
Welcome to Tic Tac Toe!
You are X, AI is O
```

```
| |
--+---+--
| |
--+---+--
| |
```

```
Enter your move (0-8): 1
AI chose position: 2
```

```
| X | O
--+---+--
| |
--+---+--
| |
```

```
Enter your move (0-8): 3
AI chose position: 8
```

```
| X | O
--+---+--
X | |
--+---+--
| | O
```

```
Enter your move (0-8): 4
AI chose position: 5
```

```
| X | O
--+---+--
X | X | O
--+---+--
| | O
```

AI WINS!