

```
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
```

Command Prompt - python ti X

Windows PowerShell X

Windows PowerShell X + ^

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_tac_toe.py
PS C:\Users\Nagaveni\oneDrive\Desktop\tic_tac_toe.py> dir

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

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

PS C:\Users\Nagaveni\oneDrive\Desktop\tic_tac_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 | 0  
-+---+  
| |  
-+---+  
| |
```

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

```
| X | 0  
-+---+  
X | |  
-+---+  
| | 0
```

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

```
| X | 0  
-+---+  
X | X | 0  
-+---+  
| | 0
```

🤖 AI WINS!