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import math

PLAYER_X = 'X' # AI
PLAYER_O = 'O' # Human
EMPTY = ' '

def print_board(board):
    """Prints the Tic-Tac-Toe board."""
    for row in board:
        print(" | ".join(row))
        print("-" * 9)

def is_winner(board, player):
    """Checks if a player has won the game."""
    for row in board:
        if all(cell == player for cell in row):
            return True

    for col in range(3):
        if all(board[row][col] == player for row in range(3)):
            return True

    if all(board[i][i] == player for i in range(3)) or all(board[i][2 - i] == player for i in range(3)):
        return True

    return False

def is_draw(board):
    """Checks if the game is a draw."""
    return all(board[row][col] != EMPTY for row in range(3) for col in range(3))

def evaluate(board):
    """Evaluates the board state."""
    if is_winner(board, PLAYER_X):
        return 10
    if is_winner(board, PLAYER_O):
        return -10
    return 0

def minimax(board, depth, is_maximizing, alpha, beta):
    """Minimax algorithm with alpha-beta pruning."""
    score = evaluate(board)

    if score == 10 or score == -10:
        return score - depth if score == 10 else score + depth

    if is_draw(board):
        return 0

    if is_maximizing:
        max_eval = -math.inf
        for row in range(3):
            for col in range(3):
                if board[row][col] == EMPTY:
                    board[row][col] = PLAYER_X
                    eval = minimax(board, depth + 1, False, alpha, beta)
                    board[row][col] = EMPTY
                    max_eval = max(max_eval, eval)
                    alpha = max(alpha, eval)
                    if beta <= alpha:
                        break
            return max_eval

    else:
        min_eval = math.inf
        for row in range(3):
            for col in range(3):
                if board[row][col] == EMPTY:
                    board[row][col] = PLAYER_O
                    eval = minimax(board, depth + 1, True, alpha, beta)
                    board[row][col] = EMPTY
                    min_eval = min(min_eval, eval)
                    beta = min(beta, eval)
                    if beta <= alpha:
                        break
            return min_eval

def best_move(board):
    """Finds the best move for the AI."""
    best_val = -math.inf
    move = (-1, -1)

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for row in range(3):
    for col in range(3):
        if board[row][col] == EMPTY:
            board[row][col] = PLAYER_X
            move_val = minimax(board, 0, False, -math.inf, math.inf)
            board[row][col] = EMPTY

            if move_val > best_val:
                best_val = move_val
                move = (row, col)

return move

def play():
    """Runs a Tic-Tac-Toe game between a human and AI."""
    board = [[EMPTY] * 3 for _ in range(3)]
    print("Tic-Tac-Toe: AI (X) vs. You (O)")
    print_board(board)

    while True:
        row, col = map(int, input("Enter your move (row and column 0-2): ").split())

        if board[row][col] != EMPTY:
            print("Invalid move! Try again.")
            continue

        board[row][col] = PLAYER_O

        if is_winner(board, PLAYER_O):
            print_board(board)
            print("You win! 🎉")
            break

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

        ai_row, ai_col = best_move(board)
        board[ai_row][ai_col] = PLAYER_X
        print("\nAI plays:")
        print_board(board)

        if is_winner(board, PLAYER_X):
            print("AI wins! 🤖")
            break

        if is_draw(board):
            print("It's a draw! 🤝")
            break

if __name__ == "__main__":
    play()

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🔄 Tic-Tac-Toe: AI (X) vs. You (O)
| | |
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| | |
-----
| | |
-----
Enter your move (row and column 0-2): 0 1

AI plays:
X | O |
-----
| | |
-----
| | |
-----
Enter your move (row and column 0-2): 1 1

AI plays:
X | O |
-----
| O |
-----
| X |
-----
Enter your move (row and column 0-2): 2 0

AI plays:

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x | o | x

| o |

o | x |

Enter your move (row and column 0-2): 1 0

AI plays:

x | o | x

o | o | x

o | x |

Enter your move (row and column 0-2): 2 2

x | o | x

o | o | x

o | x | o

It's a draw! 🏆