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import random

def print_board(b):
    for r in b:
        print(" | ".join(r))
        print("-" * 10)

def check_win(b):
    for row in b:
        if row.count(row[0]) == len(row) and row[0] != ' ':
            return True
    for col in range(len(b)):
        if all(b[row][col] == b[0][col] and b[row][col] != ' ' for row in range(len(b))):
            return True
    if b[0][0] == b[1][1] == b[2][2] and b[0][0] != ' ':
        return True
    if b[0][2] == b[1][1] == b[2][0] and b[0][2] != ' ':
        return True
    return False

def check_draw(b):
    return all(cell != ' ' for row in b for cell in row)

def computer_move(b):
    best_score = -float('inf')
    best_move = None
    for i in range(len(b)):
        for j in range(len(b[0])):
            if b[i][j] == ' ':
                b[i][j] = 'X'
                score = minimax(b, 0, False)
                b[i][j] = ' '
                if score > best_score:
                    best_score = score
                    best_move = (i, j)
    if best_move:
        b[best_move[0]][best_move[1]] = 'X'

def minimax(b, depth, is_maximizing):
    if check_win(b):
        return -1 if is_maximizing else 1
    elif check_draw(b):
        return 0

    if is_maximizing:
        best_score = -float('inf')
        for i in range(len(b)):
            for j in range(len(b[0])):
                if b[i][j] == ' ':
                    b[i][j] = 'X'
                    score = minimax(b, depth + 1, False)
                    b[i][j] = ' '
                    best_score = max(score, best_score)
        return best_score
    else:
        best_score = float('inf')
        for i in range(len(b)):
            for j in range(len(b[0])):
                if b[i][j] == ' ':
                    b[i][j] = 'O'
                    score = minimax(b, depth + 1, True)
                    b[i][j] = ' '
                    best_score = min(score, best_score)
        return best_score

def human_move(b):
    while True:
        move = input("Enter your move (row and column number, separated by space): ")
        move = move.split()

        if len(move) != 2:
            print("Invalid input. Please enter two numbers separated by space.")
            continue

        try:
            row, col = int(move[0]), int(move[1])
        except ValueError:
            print("Invalid input. Please enter valid integers.")
            continue

        if row < 0 or row > 2 or col < 0 or col > 2:
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            print("Invalid move. Please enter numbers between 0 and 2.")
            continue

        if b[row][col] != ' ':
            print("Invalid move, try again.")
        else:
            b[row][col] = 'O'
            break

def play_game():
    board = [[' ' for _ in range(3)] for _ in range(3)]
    while True:
        print_board(board)
        human_move(board)
        if check_win(board):
            print_board(board)
            print("You win!")
            break
        elif check_draw(board):
            print_board(board)
            print("It's a draw!")
            break
        computer_move(board)
        if check_win(board):
            print_board(board)
            print("Computer wins!")
            break
        elif check_draw(board):
            print_board(board)
            print("It's a draw!")
            break

play_game()
print('Adithya Ravikeerthi')
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Enter your move (row and column number, separated by space): 1
Invalid input. Please enter two numbers separated by space.
Enter your move (row and column number, separated by space): 12
Invalid input. Please enter two numbers separated by space.
Enter your move (row and column number, separated by space): 1 2
  |   | X
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  |   | O
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  |   |
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Enter your move (row and column number, separated by space): 2 2
X |   | X
----------
  |   | O
----------
  |   | O
----------
Enter your move (row and column number, separated by space): 1 6
Invalid move. Please enter numbers between 0 and 2.
Enter your move (row and column number, separated by space): 1 1
X | X | X
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  | O | O
----------
  |   | O
----------
Computer wins!
Adithya Ravikeerthi
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