```
import math
def print board(board):
   print()
   for i in range(3):
       print(" | ".join(board[i*3:(i+1)*3]))
           print("----")
   print()
def check winner(board):
       [0,4,8], [2,4,6]
       if board[state[0]] == board[state[1]] == board[state[2]] != " ":
           return board[state[0]]
   if " " not in board:
def minimax(board, depth, is maximizing):
   winner = check winner(board)
   if winner == "O": return -1
           if board[i] == " ":
               board[i] = "X"
               score = minimax(board, depth+1, False)
```

```
return best score
       best score = math.inf
            if board[i] == " ":
               board[i] = "0"
                score = minimax(board, depth+1, True)
                board[i] = " "
       return best score
def best move(board):
   best score = -math.inf
   move = None
       if board[i] == " ":
           board[i] = " "
                best score = score
               move = i
   return move
def play game():
   board = [" "] * 9
   print("Welcome to Tic-Tac-Toe!")
   print("You are '0' and AI is 'X'")
   print board(board)
                move = int(input("Enter your move (0-8): "))
                    board[move] = "0"
```

```
print("Invalid move. Try again.")
               print("Please enter a number between 0 and 8.")
       print_board(board)
       board[ai move] = "X"
       print("AI chooses:", ai_move)
       print_board(board)
   if result == "Draw":
       print("It's a draw!")
       print(f"{result} wins!")
if __name__ == "__main__":
   play_game()
```

PS C:\Users\HP> & C:\Users\HP/AppData/Local/Microsoft/WindowsApps/python3.13.exe "c:\Users\HP/Downloads/ASSIGNMENT 9.PY"
Welcome to Tic-Tac-Toe!
You are 'O' and AI is 'X'

Enter your move (0-8): 6
O
Al chooses: 4
X
O