ROSENIVITHA J - 192424009

**EXP 13: Write the python program to implement Minimax algorithm for gaming**

**AIM:**

To Write the python program to implement Minimax algorithm for gaming.

**PROGRAM:**

def minimax(board, depth, is\_max):

if check\_win(board,'X'): return 1

if check\_win(board,'O'): return -1

if all(cell != " " for row in board for cell in row): return 0

if is\_max:

best = -float('inf')

for i in range(3):

for j in range(3):

if board[i][j]==" ":

board[i][j]="X"

best = max(best,minimax(board,depth+1,False))

board[i][j]=" "

return best

else:

best = float('inf')

for i in range(3):

for j in range(3):

if board[i][j]==" ":

board[i][j]="O"

best = min(best,minimax(board,depth+1,True))

board[i][j]=" "

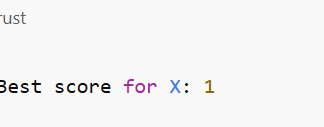
return best

# Example usage

board = [["X","O","X"],["O","X"," "],[" "," ","O"]]

print("Best score for X:", minimax(board,0,True))

OUTPUT:



**RESULT:**

Thus, the output is verified to implement Minimax algorithm for gaming.