AIM:

The aim is to slove the tic tac toe game using python program

PROGRAM:

def print\_board(board):

for row in board:

print(" ".join(row))

def check\_win(board):

for row in board:

if row.count(row[0]) == len(row) and row[0] != ' ':

return True

for col in range(len(board)):

check = []

for row in board:

check.append(row[col])

if check.count(check[0]) == len(check) and check[0] != ' ':

return True

if board[0][0] == board[1][1] == board[2][2] != ' ':

return True

if board[0][2] == board[1][1] == board[2][0] != ' ':

return True

return False

def tic\_tac\_toe():

board = [[' ' for \_ in range(3)] for \_ in range(3)]

print\_board(board)

player = 'X'

while True:

print(f"Player {player}, enter your move: ")

move = input()

x, y = map(int, move.split())

if board[x][y] != ' ':

print("Invalid move, try again.")

continue

board[x][y] = player

print\_board(board)

if check\_win(board):

print(f"Player {player} wins!")

break

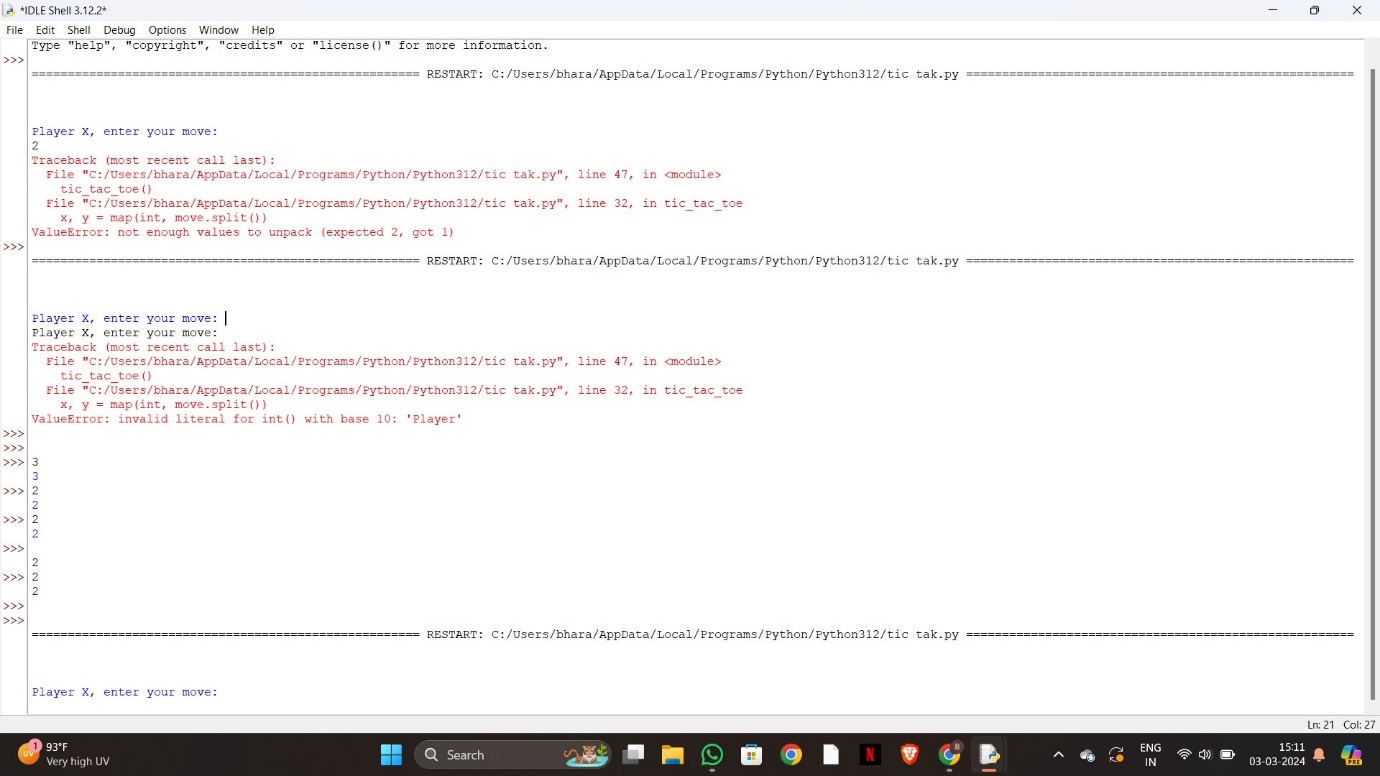
player = 'O' if player == 'X' else 'X'

tic\_tac\_toe()

INPUT:

Player x enter ur move: 0

OUTPUT:



RESULT:

The tic tac toe game solving using python program is successfully completed