TIC-TAC-TOE GAME

import os

import time

board = [' ',' ',' ',' ',' ',' ',' ',' ',' ',' ']

player = 1

########win flags##########

Win = 1

Draw = -1

Running = 0

Stop = 1

###########################

Game = Running

Mark = 'X'

#This function draws game board

def DrawBoard():

    print(" %c | %c | %c " % (board[1],board[2],board[3]))

    print("\_\_\_|\_\_\_|\_\_\_")

    print(" %c | %c | %c " % (board[4],board[5],board[6]))

    print("\_\_\_|\_\_\_|\_\_\_")

    print(" %c | %c | %c " % (board[7],board[8],board[9]))

    print("   |   |   ")

#This Function Checks position is empty or not

def CheckPosition(x):

    if(board[x] == ' '):

        return True

    else:

        return False

#This function checks player has won or not

def CheckWin():

    global Game

    #Horizontal winning condition

    if(board[1] == board[2] and board[2] == board[3] and board[1] != ' '):

        Game = Win

    elif(board[4] == board[5] and board[5] == board[6] and board[4] != ' '):

        Game = Win

    elif(board[7] == board[8] and board[8] == board[9] and board[7] != ' '):

        Game = Win

    #Vertical Winning Condition

    elif(board[1] == board[4] and board[4] == board[7] and board[1] != ' '):

        Game = Win

    elif(board[2] == board[5] and board[5] == board[8] and board[2] != ' '):

        Game = Win

    elif(board[3] == board[6] and board[6] == board[9] and board[3] != ' '):

        Game=Win

    #Diagonal Winning Condition

    elif(board[1] == board[5] and board[5] == board[9] and board[5] != ' '):

        Game = Win

    elif(board[3] == board[5] and board[5] == board[7] and board[5] != ' '):

        Game=Win

    #Match Tie or Draw Condition

    elif(board[1]!=' ' and board[2]!=' ' and board[3]!=' ' and board[4]!=' ' and board[5]!=' ' and board[6]!=' ' and board[7]!=' ' and board[8]!=' ' and board[9]!=' '):

        Game=Draw

    else:

        Game=Running

print("Tic-Tac-Toe Game is designed By KHUSHBOO VERMA")

print("Player 1 [X] --- Player 2 [O]\n")

print()

print()

print("Please Wait...")

time.sleep(3)

while(Game == Running):

    os.system('cls')

    DrawBoard()

    if(player % 2 != 0):

        print("Player 1's chance")

        Mark = 'X'

    else:

        print("Player 2's chance")

        Mark = 'O'

    choice = int(input("Enter the position between [1-9] where you want to mark : "))

    if(CheckPosition(choice)):

        board[choice] = Mark

        player+=1

        CheckWin()

os.system('cls')

DrawBoard()

if(Game==Draw):

    print("Game Draw")

elif(Game==Win):

    player-=1

    if(player%2!=0):

        print("Player 1 Won")

    else:

        print("Player 2 Won")