FinshedWorkingVersion

February 18, 2018

1 Tic Tac Toe

2 My Code

3 Finished Working Version 3

3.1 How to Play

There are two players for the game.

The goal of the game is to get three noughts or crosses aligned within a 3x3 grid.

This can occur horizontally, vertically or diagonally.

If there no noughts or crosses aligned, the players have drawed and the game starts again.

```
for i in range(3):
        horizontal = set(board[i])
        if len(horizontal)==1 and board[i][2]!=0:
            return board[i][2] # to check if there is three in a row
    for j in range(3):
        vertical = set([board[0][j], board[1][j], board[2][j]])
        if len(vertical)==1 and board[1][j]!=0:
            return vertical[1][j] # to check if there is three in a column
    diag1 = set([board[0][0], board[1][1], board[2][2]])
    diag2 = set([board[0][2], board[1][1], board[2][0]])
    if len(diag1)==1 or len(diag2)==1 and board[1][1]!=0:
        return board[1][1] # to check if there is three in a diagonal
   return "No One"
if __name__=="__main__":
    Continue='yes' # to allow the player to stop or continue the game
    count_x=0
    count_o=0
    while Continue!='no':
        board=[[" "," "," "], [" "," "], [" "," "]] #the empty spaces within the
        drawboard(board)
        count = 0
        chance = True
        while chance:
            spot = input("Enter the row,column in same format as given: ")
            spot = spot.split(",") # to split the string into to separate for the rows or
            horizontal = int(spot[0]) -1 # Converted into a integer for the character to
            vertical = int(spot[1]) -1
            if count%2==0:
                print ("\nPlayer 1 chance!")
                if board[horizontal][vertical] == " ":
                    board[horizontal][vertical] = 'X'
                    print ("Already Filled. Try Again!")
                    count-=1
```

```
# Gives the player 1 two tries before it switches to player 2
        else:
            print ("\nPlayer 2 chance!")
            if board[horizontal][vertical] == " ":
                board[horizontal][vertical]='0'
            else:
                print ("Already Filled. Try Again!")
                count-=1
            drawboard(board)
             # Gives the player 2, two tries before it switches to player 1
        count+=1
        if " " in board[0] or " " in board[1] or " " in board[2]:
            chance = True
        else:
            chance = False
            print ("Chances Over!")
            # Check if it is a tie when the spaces are filled
        if Winner(board) == 'X':
            print ("Winner is ", Winner(board))
            count_x+=1 # Checks how many rounds the player has won
            break
        elif Winner(board) == '0':
            print ("Winner is ", Winner(board)) # Displays the winner
            count o+=1
            break
        else:
            print ("No winner yet! Carry on.")
            # There is not a winner yet the game continues
    Continue=input("Do you want to play again (y/n): ") # Player can stop or continu
print ("Thank you for playing!")
print ("Score is... \nPlayer 1: %s \nPlayer 2: %s"%(count_x, count_o)) # Allows play
```

drawboard(board)