

# Version\_One

February 18, 2018

## 1 Tic Tac Toe

### 1.1 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.

## 2 Guidance code

```
In [ ]: def horizontal(n): # function to make the horizontal lines of the grid
        for a in range(n):
            print(" ---", end="")

def vertical(n): # function to make the vertical lines of the grid
    for a in range(n):
        print("|", end="")
    print("|", end="")

def draw_board(n): # Makes board by combining the horiszontal and vertical functions
    for a in range(n):
        horizontal(n)
        print("")
        vertical(n)
        print("")
    horizontal(n)

if __name__ == '__main__':
    board_size = int(input("Enter board size: "))
    draw_board(board_size)
```

### 3 My code

Unfinished due to messy coding use different technique

```
In [3]: import random
def horizontal(n): # to print the horizontal lines of the board
    for horiz in range (3):
        print (" ---",end="")

def vertical(n):# to print the vertical lines of the board
    for vert in range (3):
        print ("|  ", end=" ")
    print ("|", end="")

def drawBoard(n):# to make compile the two function to create the board
    for board in range(n):
        horizontal(n)
        print("")
        vertical(n)
        print("")
    horizontal(n)

drawBoard(3)

board = [[0,0,0],[0,0,0],[0,0,0]] #board co-ordinates placeholde for the X and O
positons = [0,1,2]

def checkWin1():# Winning coordinate for the X and O in the diagonal direction to the ri
    if board [0][0] == "X" and board [1][1] == "X" and board [2][2] == "X":
        print("Player X Wins!!!")
    elif board [0][0] == "O" and board [1][1] == "O" and board [2][2] == "O":
        print ("Player O Wins!!!")

def checkWin2(): # Winning coordinates for the X and O in the diagonal diraction to the
    if board [0][2]== "X" and board [1][1] == "X" and board [2][0] == "X":
        print ("Player X Win!!!")
    elif board [0][2]== "O" and board [1][1] == "O" and board [2][0] == "O":
        print ("Player O Win!!!")

def checkWin3():# Winning coordinates for the X and O in the first horizontal
    if board [0][0] == "X" and board [0][1] == "X" and board [0][2] == "X":
        print ("Player X Win!!!")
    elif board [0][0] == "O" and board [0][1] == "O" and board [0][2] == "O":
        print ("Player O Win!!!")

def checkWin3():# Winning coordinates for the X and O in the second horizontal
    if board [1][0]== "X" and board [1][1] == "X" and board [1][2] == "X":
        print ("Player X Win!!!")
```

```

        elif board [1][0]== "0" and board [1][1] == "0" and board [1][2] == "0":
            print ("Player 0 Win!!!")

def checkWin4():# Winning coordinates for the X and 0 in the third horizontal
    if board [2][0] == "X" and board [2][1] == "X" and board [2][2] == "X":
        print ("Player X Win!!!")
    elif board [2][0] == "0" and board [2][1] == "0" and board [2][2] == "0":
        print ("Player 0 Win!!!")

def checkWin5():# Winning coordinates for the X and 0 in the first Column
    if board [0][0] == "X" and board [1][0] == "X" and board [2][0] == "X":
        print ("Player X Win!!!")
    elif board [0][0] == "0" and board [1][0] == "0" and board [2][0] == "0":
        print ("Player 0 Win!!!")

def checkwin7():# Winning coordinates for the X and 0 in the second Column
    if board [0][1] == "X" and board [1][1] == "X" and board [2][1] == "X":
        print ("Player X Win!!!")
    elif board [0][1] == "0" and board [1][1] == "0" and board [2][1] == "0":
        print ("Player 0 Win!!!")

def checkwin8():# Winning coordinates for the X and 0 in the third Column
    if board [0][2] == "X" and board [1][2] == "X" and board [2][2] == "X":
        print ("Player X Win!!!")
    if board [0][2] == "X" and board [1][2] == "X" and board [2][2] == "X":
        print ("Player 0 Win!!!")

playerCharact = "X" or "0" or "x" or "o"

PlayerCharact = input ("Which character do you want nought(0) or crosses(X) ")
# userPlacement = raw_input("Where do you want to place your character")
user_x =(input("Enter the row to place character from 0-2 "))
user_y =(input("Enter the column to place chracter 0-2 "))

# print (board(str([user_x]))+(str([user_y]))+[charactSel])

# print (board[user_x][user_y])

--- --- ---
|   |   |   |
--- --- ---
|   |   |   |
--- --- ---
|   |   |   |
--- --- ---
Which character do you want nought(0) or crosses(X) X
Enter the row to place character from 0-2 0
Enter the column to place chracter 0-2 2

```

```

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TypeError                                Traceback (most recent call last)

<ipython-input-3-1459d8ec05c9> in <module>()
    85     return (print (drawboard))
    86
---> 87 boardPlacement()
    88
    89

<ipython-input-3-1459d8ec05c9> in boardPlacement()
    80     matrix = []
    81     board = [[0,0,0],[0,0,0],[0,0,0]]#board co-ordinates placeholde for the X and 0
---> 82     board.append(user_x)(user_y)
    83     matrix.append(board)(characterSel)
    84     drawboard.append(matrix)

TypeError: 'NoneType' object is not callable

```