Features:

- 1) 2 players will be to play the game, both humans
- 2) Board will be built using a dictionary:
 - a) Board = {1: '', 2: '' 9: ''}
- 3) Players can place piece on board by inputting board coordinate. E.g 5
 - a) 1 9 the coordinates of the grid
- 4) Everytime piece is place the program will check if there is a winner
- 5) output draw if no one has won

Code:

```
sused to draw out the grid, in the format of a tictactoe game. for b in range(1_k10):
     print(' '+positions[b]+' ', end='')
if b == 3 or b == 6:
    print('\n '+'~ '*5)
#checks if player 1 is the winner for i in range(1,10,3):
      if positions[i] == 'x' and positions[i+1] == 'x' and positions[i+2] == 'x':
return '\nPlayer1 Is the Winne for \underline{i} in range(1<sub>\lambda</sub>4):
#checks if player 2 is the winner
     if positions[i] == '0' and positions[i+1] == '0' and positions[i+2] == '0':
    return '\nPlayer1 Is the Winner'
      if positions[i] == 'o' and positions[i+3] == 'o' and positions[i+6] == 'o':
    return '\nPlayer1 Is the Winner'
return '\nplayer1 is the winner'
elif positions[3] == 'o' and positions[5] == 'o' and positions[7] == 'o':
```

```
# creates a dictionary that is numbered 1-9 with each valued equal to ' '
for i in range(1, 10):
    positions[i] = ''

draw()

#repeats this code 5 times, this will fill the whole grid, if there is no winner
for i in range(5):
    #this checks if there is a winner, if there isn't a winner it will return 'none' which wont run this code below
    if winfpositions) = None:
        print(win(positions)) = None:
        print(win(positions)) = None:
        print(win(input('\n(E))Choose a number between 1-5(which is not taken), to put your "W" down: '))] = Playeri
        fash uses to put there a on the grid, this will automatically put it in the dictionary which will then be printed out via draw()
        positions[int(input('\n(E))Choose a number between 1-5(which is not taken), to put your "W" down: '))] = Playeri
        fash; checks again, incase there is a winner after the previous input.
        if winipositions) != None:
            print(winipositions) != None:
            pri
```

Features

- 1) Same as version one, however there will be 3 games
- 2) Print out who has won, out of 3 games and the score

Code:

```
def win(positions):
            if positions[i] == 'x' and positions[i+1] == 'x' and positions[i+2] == 'x':
    return '\nPlayer1 Is the Winner'
     #Vertical
if positions[i] == 'x' and positions[i+3] == 'x' and positions[i+6] == 'x':
    return '\nPlayer1 Is the Winner'
#diagonal
      if positions[1] == 'x' and positions[5] == 'x' and positions[9] == 'x':
      elif positions[3] == 'x' and positions[5] == 'x' and positions[7] == 'x':
    return '\nplayer1 is the winner'
     $player2
$checks if player 2 is the winner
for i in range(1,10,3):
            if positions[i] == 'o' and positions[i+1] == 'o' and positions[i+2] == 'o':
    return '\nPlayer1 Is the Winner'
            if positions[i] == 'o' and positions[i+3] == 'o' and positions[i+6] == 'o':
    return '\nPlayer1 Is the Winner'
      return '\nplayer1 is the winner'
elif positions[3] == 'o' and positions[5] == 'o' and positions[7] == 'o':
    return '\nplayer1 is the winner'
```

```
## Part of the table is 1 games

For it is especial

particular * ()

for it is especial

particular * ()

for it is especial

particular * ()

for it is especial

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```

Features

1) Not allow the user to put it in the same place as a position that is taken.

Code:

Same code as previous one, however with the while loop and extra if statements. As screenshotted above.

Test:

The problem of this was that i had an if statement that is look for a space and if there is a space it will print error message, which is something i didn't want.

Features

- 1) Create a GUI with tkinter for tic tac toe
- 2) When clicked if x bg = blue and when o = pink
- 3) Be able to play as much as the user wants to
- 4) Keep the score of each users until they want to end.
- 5) Be able to draw with the user

Code:

```
# player2

olif button['text'] == 'o' and button2['text'] == 'o' and button3['text'] == 'o':
    return '\nPlayer2 is the Winner'

olif button4['text'] == 'o' and button5['text'] == 'o' and button6['text'] == 'o':
    return '\nPlayer2 is the Winner'

olif button4['text'] == 'o' and button6['text'] == 'o' and button5['text'] == 'o':
    return '\nPlayer2 is the Winner'

felf button1['text'] == 'o' and button5['text'] == 'o' and button5['text'] == 'o':
    return '\nPlayer2 is the Winner'

olif button5['text'] == 'o' and button5['text'] == 'o' and button5['text'] == 'o':
    return '\nPlayer2 is the Winner'

olif button5['text'] == 'o' and button5['text'] == 'o' and button5['text'] == 'o':
    return '\nPlayer2 is the Winner'

disponal
    clif button1['text'] == 'o' and button5['text'] == 'o' and button7['text'] == 'o':
    return '\nPlayer2 is the Winner'

clif button5['text'] == 'o' and button5['text'] == 'o' and button7['text'] == 'o':
    return '\nPlayer2 is the Winner'

clif button5['text'] == 'o' and button5['text'] == 'o' and button7['text'] == 'o':
    return '\nPlayer2 is the Winner'

clif button5['text'] == 'o' and button5['text'] == 'o' and button7['text'] == 'o':
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    return '\nPlayer2 is the Winner'

clif button5['text'] == 'o' and button5['text'] == 'o' and button7['text'] == 'o':
    return '\nPlayer2 is the Winner'

clif button5['text'] == 'o' and button5['text'] == 'o' and button7['text'] == 'o':
    return '\nPlayer2 is the Winner'

clif button5['text'] == 'o' and button5['text'] == 'o' and button5['text'] == 'o':
    return '\nPlayer2 is the Winner'

clif button5['text'] == 'o' and button5['text'] == 'o' and button5['text'] == 'o':
    return '\nPlayer3 is the Winner'

clif button5['text'] == 'o' and button5['text'] == 'o' and button5['text'] == 'o':
    return '\nPlayer3 is the Winner'

clif button5['text'] == 'o' and button5['text'] == 'o' and button5['text'] == 'o':
```

Test

```
C:/Users/Student/Documents/Desktopstuff/Programming/Python/TicTacToe(GUI).py:242: SyntaxWarning: name 'player' is ass global player

C:/Users/Student/Documents/Desktopstuff/Programming/Python/TicTacToe(GUI).py:244: SyntaxWarning: name 'num9' is used global num9

do you want to play tictactoe(y/n)?: y

Exception in Tkinter callback

Traceback (most recent call last):
File "C:/Traceptam Files/Python35\lib\tkinter\ init _.py", line 1550, in __call__
    return self.func(*args)

File "C:/Users/Student/Documents/Desktopstuff/Programming/Python/TicTacToe(GUI).py", line 177, in changes
    draw()

File "C:/Users/Student/Documents/Desktopstuff/Programming/Python/TicTacToe(GUI).py", line 40, in draw
    Plscore += 1

UnboundLocalError: local variable 'Plscore' referenced before assignment

C:/Users/Student/Documents/Desktopstuff/Programming/Python/TicTacToe(GUI).py:244: SyntaxWarning: name 'num9' is used you want to play tictactoe(y/n)?: y

Position Taken
    do you want to play tictactoe(y/n)?: y

Fosition Taken
    do you want to play tictactoe(y/n)?: n

goodBye

Traceback (most recent call last):
File "C:/Users/Student/Documents/Desktopstuff/Programming/Python/TicTacToe(GUI).py", line 289, in <module>

NameError: name 'score' is not defined

Process finished with exit code 1
```