

Création d'un jeu TIC TAC TOE en utilisant python

Voici le code source écrit sur vs code

```
PlayBoard = {1: ' ', 2: ' ', 3: ' ',
              4: ' ', 5: ' ', 6: ' ',
              7: ' ', 8: ' ', 9: ' '}

def printBoard(board):
    print(board[1] + ' | ' + board[2] + ' | ' + board[3])
    print('-----')
    print(board[4] + ' | ' + board[5] + ' | ' + board[6])
    print('-----')
    print(board[7] + ' | ' + board[8] + ' | ' + board[9])

def checkPlayBoard(board):
    # rows
    for x in range(1,4):
        row = set([board[x],board[x+3],board[x+6]])
        if len(row) == 1 and board[x] != ' ':
            return board[x]

    # columns
    for x in range(1,9,3):
        column= set([board[x],board[x+1],board[x+2]])
        if len(column) == 1 and board[x] != ' ':
            return board[x]

    # diagonals
    diag1 = set([board[1],board[5],board[9]])
    diag2 = set([board[3],board[5],board[7]])
    if (len(diag1) == 1 or len(diag2) == 1) and board[5] != ' ':
        return board[5]

    # No winner
    if all(v != ' ' for v in board.values()):
        return 'No Winner'

    return 0

turn = 'O'

while checkPlayBoard(PlayBoard)!=0:
    printBoard(PlayBoard)
    print("It's your turn," + turn+" "+ "Which place you want to move?")
    move =int(input())
    if PlayBoard[move] == ' ':
        PlayBoard[move] = turn
    else:
```

```
    print("That place has been filled.\n Which place you want to move?")
    continue
if turn == 'X':
    turn = 'O'
else:
    turn = 'X'
else:
    if(checkPlayBoard(PlayBoard)!='No Winner'):
        print('The winner is:',checkPlayBoard(PlayBoard))
        print("\nGame Over.\n")
    else:
        print('No winner')
```

Description du jeu et du programme :

Le programme va permettre à deux joueurs de jouer et il va questionner les deux joueurs à chaque fois sur la position dans laquelle il va poser le « x » ou le « o » les positions sont numérotées respectivement de 1 jusqu'à 10 et si la position est déjà choisie et vous mentionne de choisir une autre , en cas d'égalité le programme mentionne « no winner »

Voici une simulation du code :

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER
It's your turn,0 Which place you want to move?
2
  |0 |
-----
  |  |
-----
  |  |
It's your turn,X Which place you want to move?
4
  |0 |
-----
X |  |
-----
  |  |
It's your turn,0 Which place you want to move?
9
  |0 |
-----
X |  |
-----
  |  |0
It's your turn,X Which place you want to move?
3
  |0 |X
-----
X |  |
-----
  |  |0
It's your turn,0 Which place you want to move?
7
  |0 |X
-----
X |  |
-----
0 |  |0
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER



```
X | |
-----
| |
It's your turn,0 Which place you want to move?
9
|0 |
-----
X | |
-----
| |0
It's your turn,X Which place you want to move?
3
|0 |X
-----
X | |
-----
| |0
It's your turn,0 Which place you want to move?
7
|0 |X
-----
X | |
-----
0 | |0
It's your turn,X Which place you want to move?
1
X |0 |X
-----
X | |
-----
0 | |0
It's your turn,0 Which place you want to move?
8
The winner is: 0

Game Over.
```