

### Write the python program for Tic Tac Toe game

```
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board = [' ' for _ in range(9)]
def print_board():
    print(f"{board[0]}|{board[1]}|{board[2]}")
    print("-+-+-")
    print(f"{board[3]}|{board[4]}|{board[5]}")
    print("-+-+-")
    print(f"{board[6]}|{board[7]}|{board[8]}")
def player_move(icon):
    if icon == "X":
        player = 1
    else:
        player = 2
    print(f"Player {player}'s turn ({icon})")
    choice = int(input("Enter your move (1-9): ").strip())
    if board[choice - 1] == " ":
        board[choice - 1] = icon
    else:
        print("That space is already taken!")
def is_victory(icon):
    win_conditions = [
        [0, 1, 2], [3, 4, 5], [6, 7, 8],
        [0, 3, 6], [1, 4, 7], [2, 5, 8],
        [0, 4, 8], [2, 4, 6]
    ]
    return any(all(board[i] == icon for i in combo) for combo in win_conditions)
def is_draw():
    return " " not in board
while True:
    print_board()
    player_move("X")
    if is_victory("X"):
        print_board()
        print("X wins! 🎉")
        break
    if is_draw():
        print("It's a draw!")
        break
    print_board()
    player_move("O")
    if is_victory("O"):
        print_board()
        print("O wins! 🎉")
        break
    if is_draw():
        print("It's a draw!")
        break
```

```
>>>
+---+
|   |
+---+
|   |
+---+
Player 1's turn (X)
Enter your move (1-9): 1
X| | 
+---+
|   |
+---+
Player 2's turn (O)
Enter your move (1-9): 5
X| | 
+---+
| O |
+---+
Player 1's turn (X)
Enter your move (1-9): 2
X|X| 
+---+
| O |
+---+
Player 2's turn (O)
Enter your move (1-9): 9
X|X| 
+---+
| O |
+---+
Player 1's turn (X)
Enter your move (1-9): 3
X|X|X
+---+
| O |
+---+
| O |
+---+
X wins! 🎉
>>>
```