Generate | give a tic tac toe program for 2 players | Close

1 of 1 | Use code with caution


```
# prompt: give a tic tac toe program for 2 players

def print_board(board):
    print("-------------")
    for i in range(3):
        print("|", board[i*3], "|", board[i*3+1], "|", board[i*3+2], "|")
        print("-------------")

def check_win(board, player):
    # Check rows, columns, and diagonals
    for i in range(3):
        if all(board[i*3+j] == player for j in range(3)):
            return True
        if all(board[i+j*3] == player for j in range(3)):
            return True
    if all(board[i*4] == player for i in range(3)):
        return True
    if all(board[2+i*2] == player for i in range(3)):
        return True
    return False

def check_draw(board):
    return all(cell != " " for cell in board)

def play_tic_tac_toe():
    board = [" "] * 9
    current_player = "X"
    while True:
        print_board(board)
        try:
            move = int(input(f"Player {current_player}, enter your move (1-9): ")) - 1
            if not 0 <= move <= 8 or board[move] != " ":
                print("Invalid move. Try again.")
                continue
        except ValueError:
            print("Invalid input. Please enter a number between 1 and 9.")
            continue

        board[move] = current_player

        if check_win(board, current_player):
            print_board(board)
            print(f"Player {current_player} wins!")
            break
        elif check_draw(board):
            print_board(board)
            print("It's a draw!")
            break
        else:
            current_player = "O" if current_player == "X" else "X"

if __name__ == "__main__":
    play_tic_tac_toe()
```

```
Player O, enter your move (1-9): 4
-------------
| X |   |   |
-------------
| O |   |   |
-------------
|   |   |   |
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```

```
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Player X, enter your move (1-9): s
Invalid input. Please enter a number between 1 and 9.
-------------
| X | O | X |
-------------
| O |   |   |
-------------
|   |   |   |
-------------
Player X, enter your move (1-9): 5
-------------
| X | O | X |
-------------
| O | X |   |
-------------
|   |   |   |
-------------
Player O, enter your move (1-9): 6
-------------
| X | O | X |
-------------
| O | X | O |
-------------
|   |   |   |
-------------
Player X, enter your move (1-9): 9
-------------
| X | O | X |
-------------
| O | X | O |
-------------
|   |   | X |
-------------
Player X wins!
```