

```

import os

turn = 'X'
win = False
spaces = 9

def draw(board):
    for i in range(6, -1, -3):
        print(' ' + board[i] + '|' +
              board[i+1] + '|' + board[i+2])

def takeinput(board, spaces, turn):
    pos = -1
    print(turn + "'s turn:")
    while pos == -1:
        try:
            print("Pick position 1-9:")
            pos = int(input())
            if(pos < 1 or pos > 9):
                pos = -1
            elif board[pos - 1] != ' ':
                pos = -1
        except:
            print("enter a valid position")
    spaces -= 1
    board[pos - 1] = turn
    if turn == 'X':
        turn = 'O'
    else:
        turn = 'X'
    return board, spaces, turn

def checkwin(board):
    # could probably make this better
    for i in range(0, 3):
        r = i*3
        if board[r] != ' ':
            if board[r] == board[r+1] and board[r+1] == board[r+2]:
                return board[r]
    # columns
    if board[i] != ' ':
        if board[i] == board[i+3] and board[i] == board[i+6]:
            return board[i]
    # diagonals
    if board[0] != ' ':
        if (board[0] == board[4] and board[4] == board[8]):
            return board[0]

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        return board[0]
    if board[2] != ' ':
        if (board[2] == board[4] and board[4] == board[6]):
            return board[2]
    return 0
board = [' ']*9
while not win and spaces:
    draw(board)
    board, spaces, turn = takeinput(board, spaces, turn)
    win = checkwin(board)
    os.system('cls')
draw(board)
if not win and not spaces:
    print("draw")
elif win:
    print(f'{win} wins')
    input()

```

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    | |
    | |
    | |
X's turn:
Pick position 1-9:
1
    | |
    | |
    x| |
O's turn:
Pick position 1-9:
9
    | |0
    | |
    x| |
X's turn:
Pick position 1-9:
4
    | |0
    x| |
    x| |
O's turn:
Pick position 1-9:
7
    0| |0
    x| |
    x| |
X's turn:
Pick position 1-9:
3
    0| |0
    x| |
    x| x
O's turn:
Pick position 1-9:
8
    0|0|0
    x| |
    x| x

```

0 wins
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