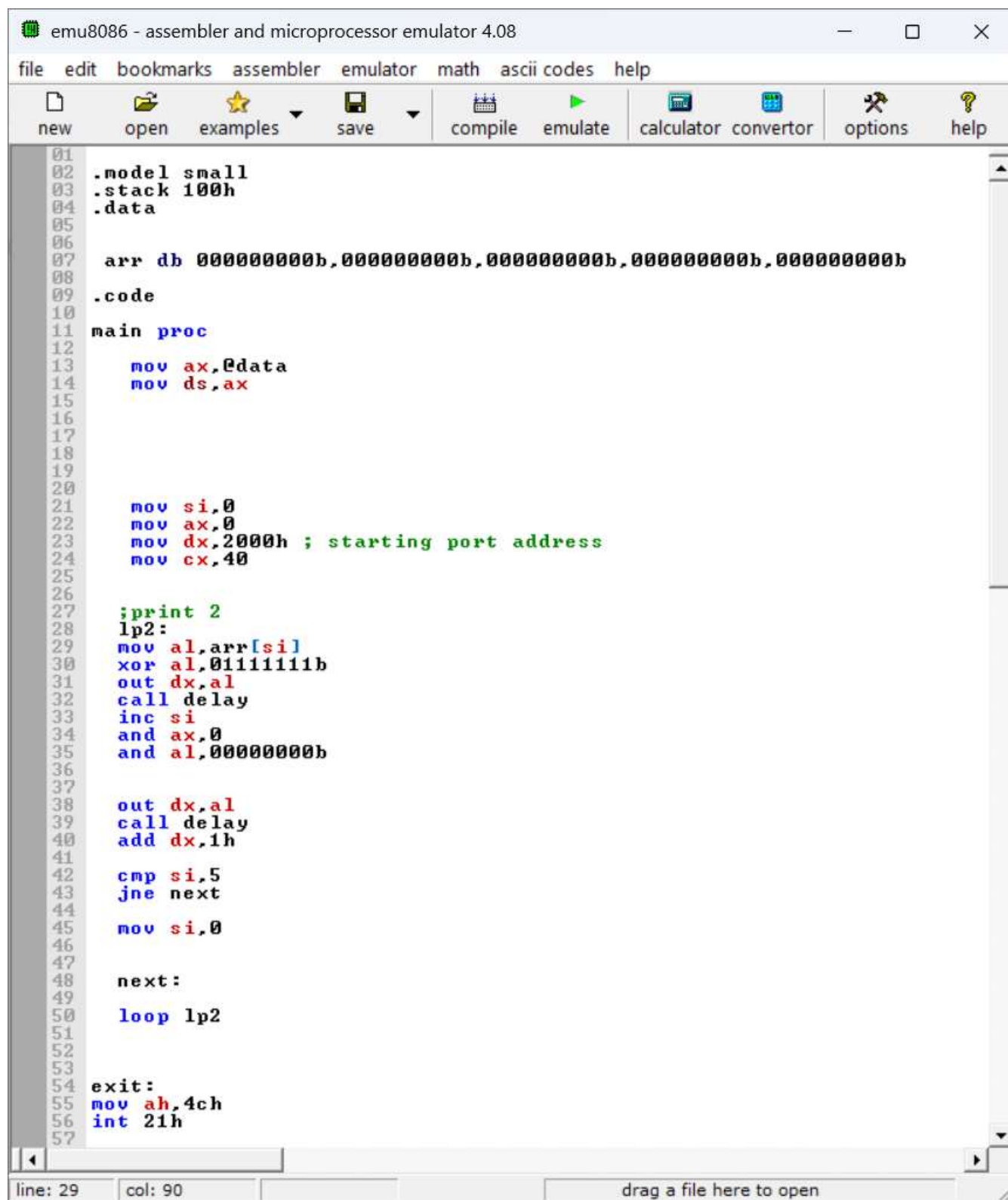


Dot Matrix Display

Tuesday, March 19, 2024 2:12 AM



The screenshot shows the emu8086 - assembler and microprocessor emulator 4.08 window. The interface includes a menu bar (file, edit, bookmarks, assembler, emulator, math, ascii codes, help) and a toolbar with icons for new, open, examples, save, compile, emulate, calculator, convertor, options, and help. The main window displays assembly code for a dot matrix display. The code is as follows:

```
01  
02 .model small  
03 .stack 100h  
04 .data  
05  
06  
07 arr db 000000000b,000000000b,000000000b,000000000b,000000000b  
08  
09 .code  
10  
11 main proc  
12  
13     mov ax,@data  
14     mov ds,ax  
15  
16  
17  
18  
19  
20  
21     mov si,0  
22     mov ax,0  
23     mov dx,2000h ; starting port address  
24     mov cx,40  
25  
26  
27 ;print 2  
28 lp2:  
29     mov al,arr[si]  
30     xor al,01111111b  
31     out dx,al  
32     call delay  
33     inc si  
34     and ax,0  
35     and al,00000000b  
36  
37  
38     out dx,al  
39     call delay  
40     add dx,1h  
41  
42     cmp si,5  
43     jne next  
44  
45     mov si,0  
46  
47  
48 next:  
49  
50     loop lp2  
51  
52  
53  
54 exit:  
55     mov ah,4ch  
56     int 21h  
57
```

The status bar at the bottom shows line 29, column 90, and a prompt to drag a file here to open.

```

59
60 main endp
61
62
63 delay proc near
64
65     push cx
66     mov cx,15
67
68     lp: loop lp
69
70     pop cx
71     ret
72 delay endp
73
74
75 end main

```

