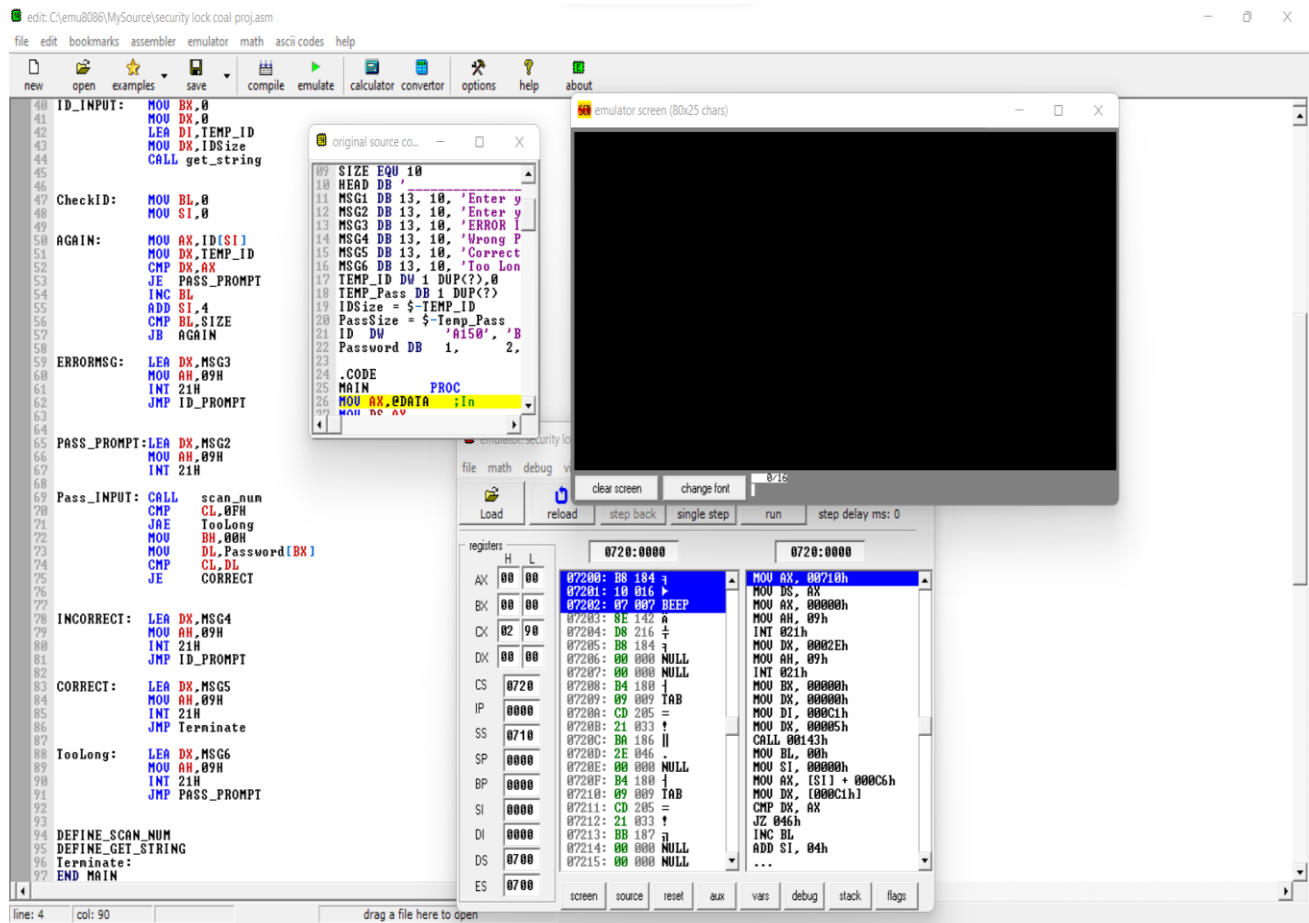


Security lock project and output



edit: C:\emu8086\MySource\security lock coal proj.asm

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```
40 ID_INPUT: MOV DX,0
41           MOV DX,0
42           LEA DI,TEMP_ID
43           MOV DX,IDSize
44           CALL get_string
45
46
47 CheckID:  MOV BL,0
48           MOV SI,0
49
50 AGAIN:    MOV AX,ID[SI]
51           MOV DX,TEMP_ID
52           CMP DX,AX
53           JE PASS_PROMPT
54           INC BL
55           ADD SI,4
56           CMP BL,SIZE
57           JB AGAIN
58
59 ERRORMSG: LEA DX,MSG3
60           MOV AH,09H
61           INT 21H
62           JMP ID_PROMPT
63
64
65 PASS_PROMPT: LEA DX,MSG2
66              MOV AH,09H
67              INT 21H
68
69 Pass_INPUT: CALL scan_num
70              CMP CL,0FH
71              JAE TooLong
72              MOV BH,00H
73              MOV DL,Password[BX]
74              CMP CL,DL
75              JE CORRECT
76
77
78 INCORRECT: LEA DX,MSG4
79              MOV AH,09H
80              INT 21H
81              JMP ID_PROMPT
82
83 CORRECT:  LEA DX,MSG5
84              MOV AH,09H
85              INT 21H
86              JMP Terminate
87
88 TooLong:  LEA DX,MSG6
89              MOV AH,09H
90              INT 21H
91              JMP PASS_PROMPT
92
93
94 DEFINE_SCAN_NUM
95 DEFINE_GET_STRING
96 Terminate:
97 END MAIN
```

original source co...

```
09 SIZE EQU 10
10 HEAD DB '
11 MSG1 DB 13,10,'Enter y
12 MSG2 DB 13,10,'Enter y
13 MSG3 DB 13,10,'ERROR I
14 MSG4 DB 13,10,'Wrong P
15 MSG5 DB 13,10,'Correct
16 MSG6 DB 13,10,'Too Lon
17 TEMP_ID DW 1 DUP(?)
18 TEMP_Pass DB 1 DUP(?)
19 IDSize = $-TEMP_ID
20 PassSize = $-Temp_Pass
21 ID DW 'A150', 'B
22 Password DB 1, 2,
23
24 .CODE
25 MAIN PROC
26 MOV AX,EDATA :in
27 MOV HC,AV
```

emulator screen (80x25 chars)

clear screen change font 8x16

Load reload step back single step run step delay ms: 0

| registers | H | L |
|-----------|------|----|
| AX | 00 | 00 |
| BX | 00 | 00 |
| CX | 02 | 90 |
| DX | 00 | 00 |
| CS | 0720 | |
| IP | 0000 | |
| SS | 0710 | |
| SP | 0000 | |
| BP | 0000 | |
| SI | 0000 | |
| DI | 0000 | |
| DS | 0700 | |
| ES | 0700 | |

0720:0000 0720:0000

| 0720:0000 | 0720:0000 |
|--------------------|-----------------------|
| 07200: B8 184 1 | MOV AX, 00710h |
| 07201: 10 016 1 | MOV DS, AX |
| 07202: 07 007 BEEP | MOV AX, 00000h |
| 07203: 8E 142 1 | MOV AH, 09h |
| 07204: D8 216 1 | INT 021h |
| 07205: B8 184 1 | MOV DX, 0002Eh |
| 07206: 00 000 NULL | MOV AH, 09h |
| 07207: 00 000 NULL | INT 021h |
| 07208: B4 180 1 | MOV BX, 00000h |
| 07209: 09 009 TAB | MOV DX, 00000h |
| 0720A: CD 205 = | MOV DI, 000C1h |
| 0720B: 21 033 1 | MOV DX, 0000Ch |
| 0720C: B8 186 1 | CALL 00143h |
| 0720D: 2E 046 | MOV BL, 00h |
| 0720E: 00 000 NULL | MOV SI, 00000h |
| 0720F: B4 180 1 | MOV AX, [SI] + 000C6h |
| 07210: 09 009 TAB | MOV DX, [000C1h] |
| 07211: CD 205 = | CMP DX, AX |
| 07212: 21 033 1 | JZ 046h |
| 07213: B8 187 1 | INC BL |
| 07214: 00 000 NULL | ADD SI, 04h |
| 07215: 00 000 NULL | ... |

line: 4 col: 90 drag a file here to open

screen source reset aux vars debug stack flags

emulator screen (191x63 chars)

Security lock
Enter your ID:B378
ERROR ID not Found!
Enter your ID:3682
ERROR ID not Found!
Enter your ID:B255
Enter your Password:7
Wrong Password! Access denied
Enter your ID:CE20
Enter your Password:4
Wrong Password! Access denied
Enter your ID:CE20
Enter your Password:3
Correct! Welcome to the Safe