PRACTICAL: 3(C10)

AIM: Modify above the program such a way that it halts the execution if carry generated & stores the intermediate result at 400AH location. (Data set-2) (Note: Student need to implement FOR loop in this program: initialization, Compare, Decrement/Increment; also need to use JMP, JMx instructions.)
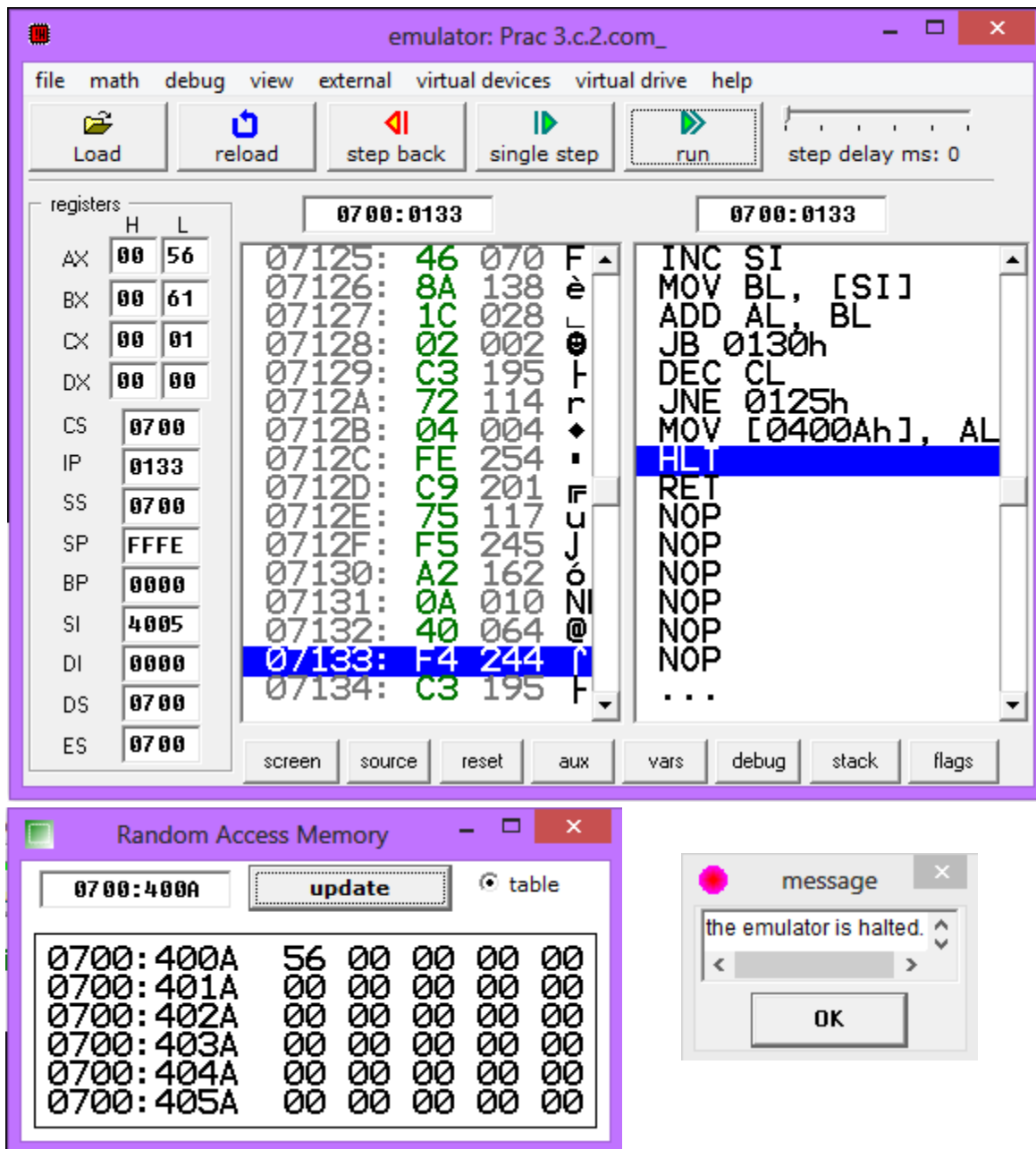
CODE:

```
org 100h

MOV [4000H],11H
MOV [4001H],21H
MOV [4002H],31H
MOV [4003H],41H
MOV [4004H],51H
MOV [4005H],61H

MOV SI,4000H
MOV AL,[SI]
MOV CL,5

L1: INC SI
   MOV BL,[SI]
   ADD AL,BL
   JC L2
   DEC CL
   JNZ L1

L2: MOV [400AH],Al
   HLT

ret
```

OUTPUT:

CONCLUSION:
We learned How to HALT the program when carry generated by using HALT and JC command.