UNIVERSITY OF INFORMATION TECHNOLOGY AND SCIENCES (UITS)

DEPARTMENT OF INFORMATION TECHNOLOGY

LAB NO.3

IT-312 : ASSEMBLY PROGRAMMING LANGUAGE LAB

SUb function

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Contents

1   Code

```
01
02  .stack 100h
03  .data
04
05  a db 'Input first digit $'
06  b db 'Input second digit $'
07  c db 'Result $'
08  .code
09  main proc
10  mov ax, @data
11  mov ds, ax
12  mov ah, 9
13  lea dx, a
14  int 21h
15  mov ah, 1
16  int 21h
17  mov bl, al
18  mov ah,2
19  mov dl,10
20  int 21h
21  mov dl, 13
22  int 21h
23  mov ah, 9
24  lea dx, b
25  int 21h
26  mov ah, 1
27  int 21h
28  mov bh, al
29  mov ah, 2
30
31
32  mov dl, 10
33  int 21h
34  mov dl,13
35  int 21h
36  mov ah,9
37  lea dx, c
38  int 21h
39
40  sub bl,bh
41  add bl,48
42  mov ah,2
43  mov dl,bl
44  int 21h
45  exit:
46  mov ah, 4ch
47  int 21h
48  main endp
49  end main
```
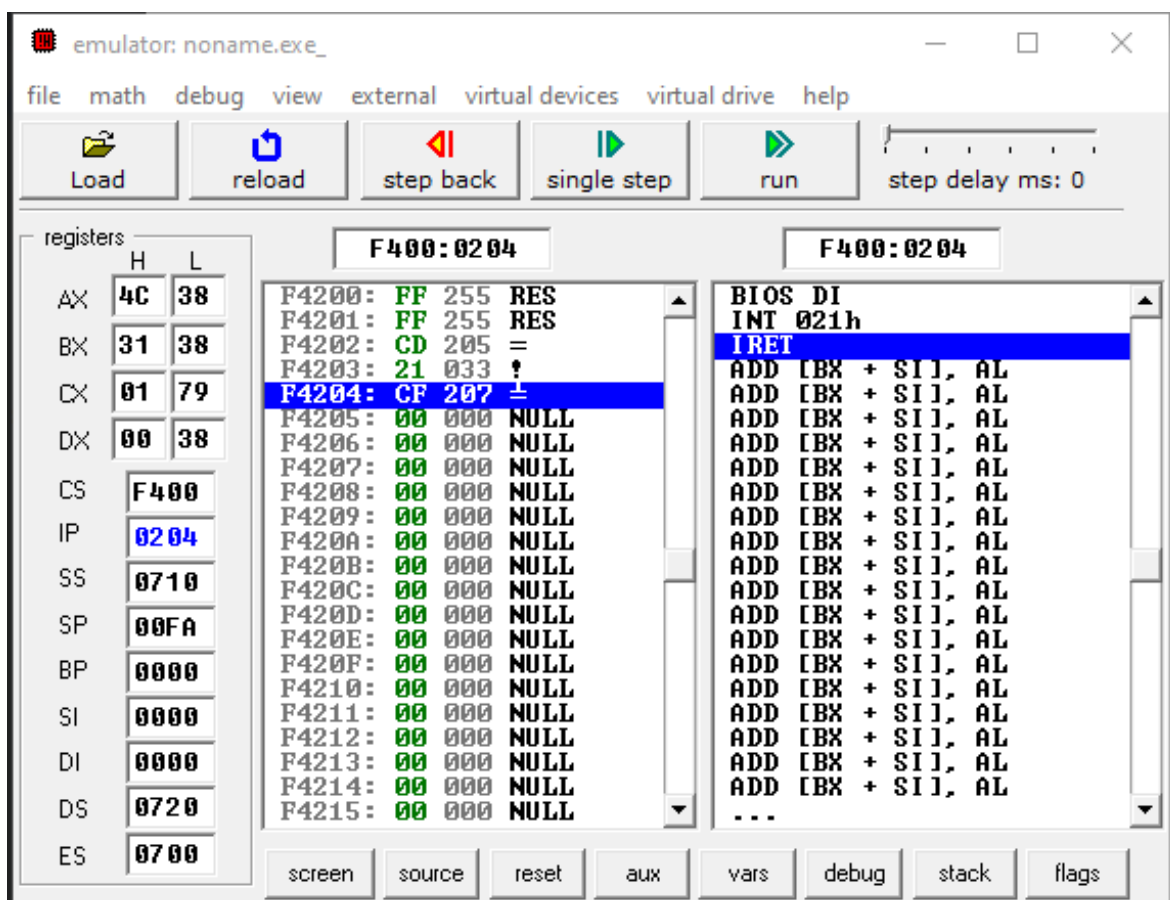
Figure 1:

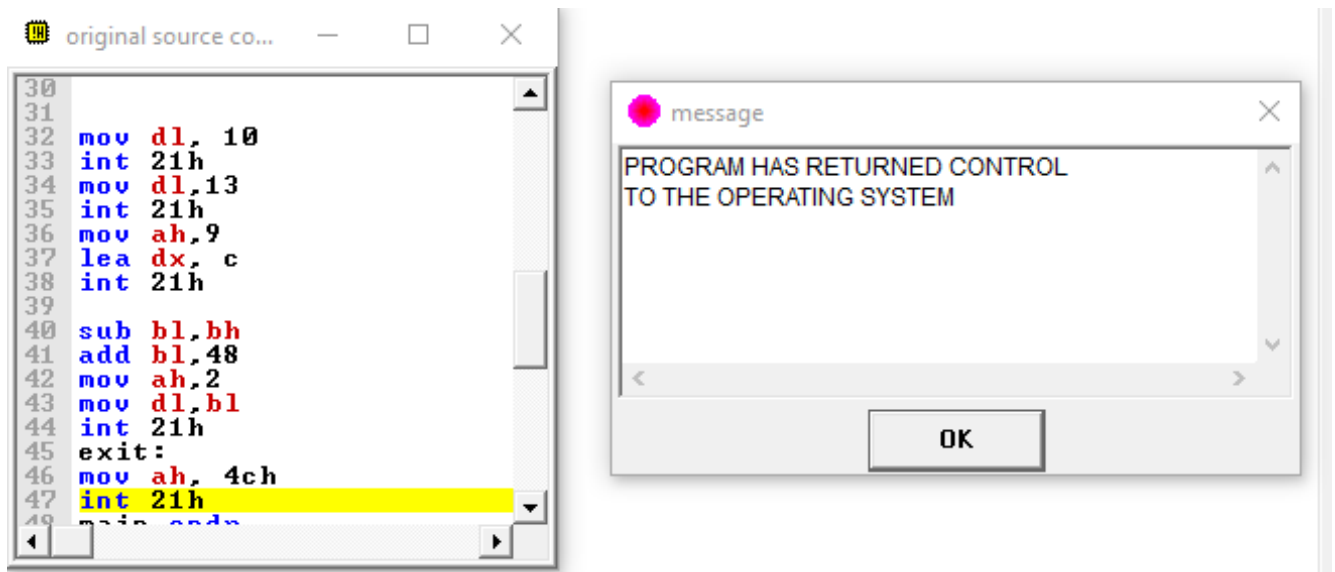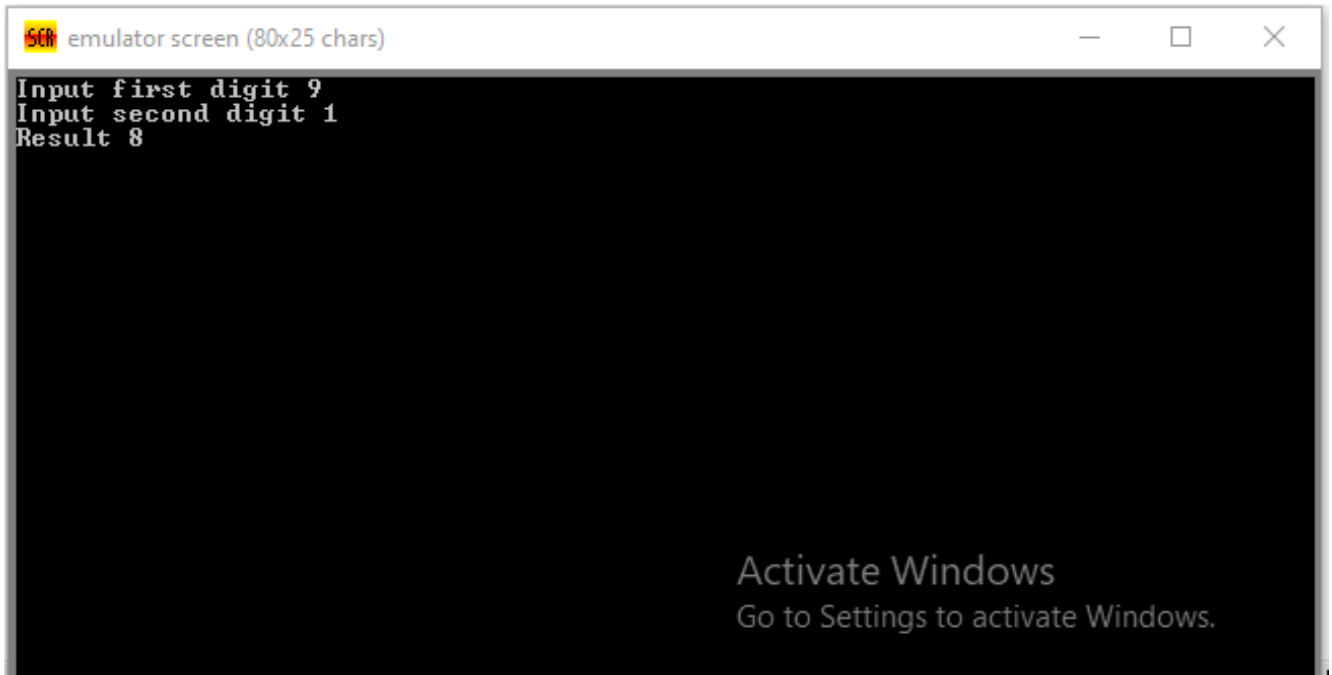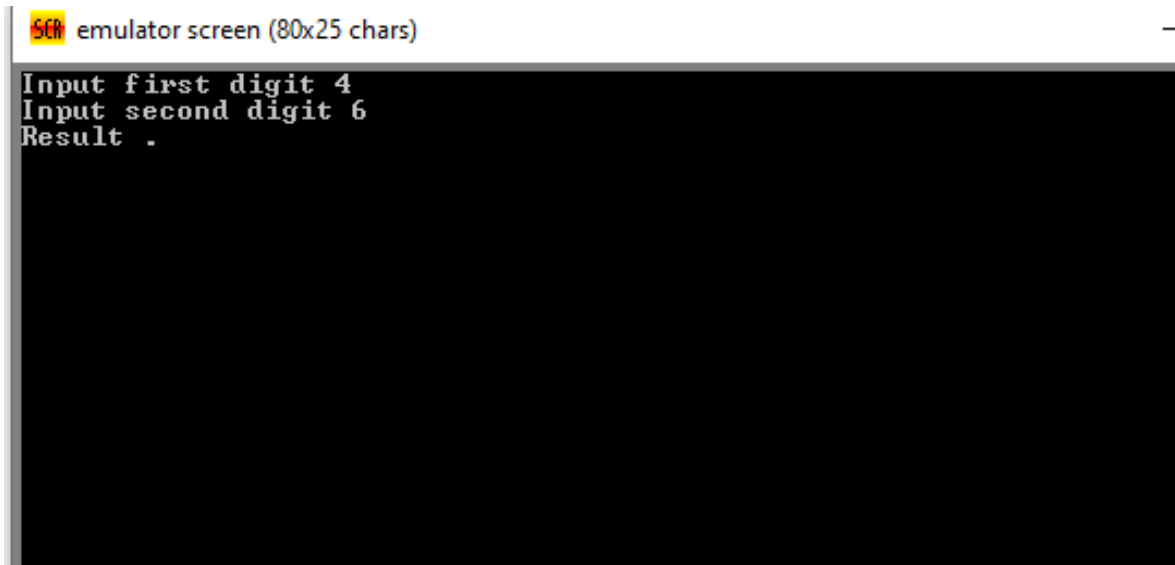Figure 2:

Figure 3:

2   Desired Output

Figure 4:

3   Exception Output

Figure 5:

4   Conclusion

Here I find a challenges of subtraction and that is if my first input is less then my second input so the subtraction will not work