



UNIVERSITY OF INFORMATION
TECHNOLOGY AND SCIENCES (UITS)
DEPARTMENT OF INFORMATION TECHNOLOGY

LAB No.4

IT-312 : ASSEMBLY PROGRAMMING LANGUAGE LAB

ADDING three number

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Contents

1	Code	2
2	Desired Output	5
3	Conclusion	5

1 Code

```

01 .model small
02 .stack 100h
03 .data
04 a db 'Input first digit $'
05
06 b db 'Input first digit $'
07
08 c db 'Input first digit $'
09
10 result db 10, 13, 'Result $'
11 .code
12 main proc
13
14 mov ax, @data
15 mov ds, ax
16 mov ah, 9
17 lea dx, a
18 int 21h
19 mov ah, 1
20 int 21h
21 mov bl, al
22 mov ah, 2
23 mov dl, 10
24 int 21h
25 mov dl, 13
26 int 21h
27 mov ah, 9
28 lea dx, b
29 int 21h
30 mov ah, 1
31 int 21h
32 mov bh, al
33 mov ah, 2
34
35
36
37 mov dl, 10
38 int 21h
39 mov dl, 13
40 int 21h
41 add bh, bl
42 sub bh, 48
43 mov ah, 9
44 lea dx, c
45 int 21h
46 mov ah, 1
47 int 21h
48 mov bl, al
49 mov ah, 2
50 mov dl, 10
51 int 21h
52 mov dl, 13
53 int 21h
54 add bh, bl
55 sub bh, 48
56 mov ah, 9
57 lea dx, result
58 int 21h
59 mov result, bh
60 mov ah, 2
61 mov dl, result
62 int 21h
63 exit:
64 mov ah, 4ch
65 int 21h
66
67 main endp
68 end main

```

Figure 1:

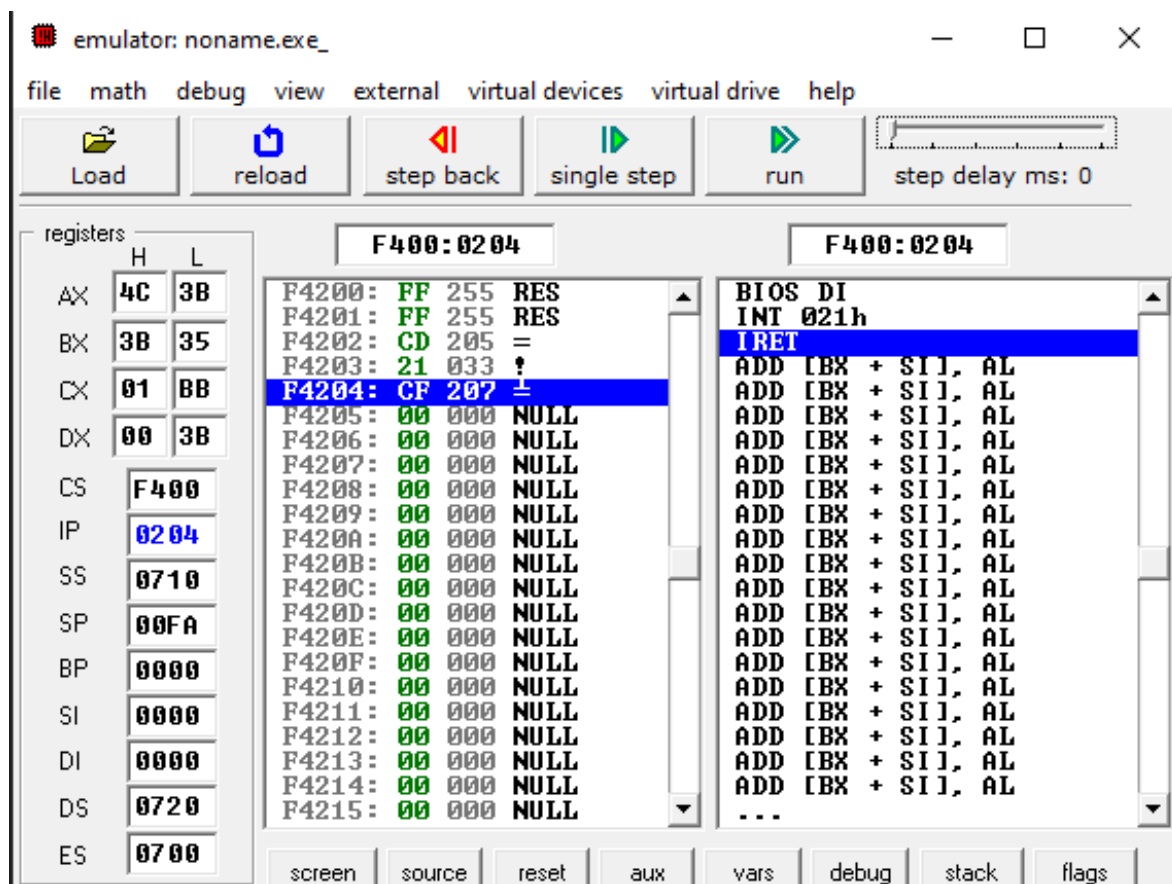


Figure 2:

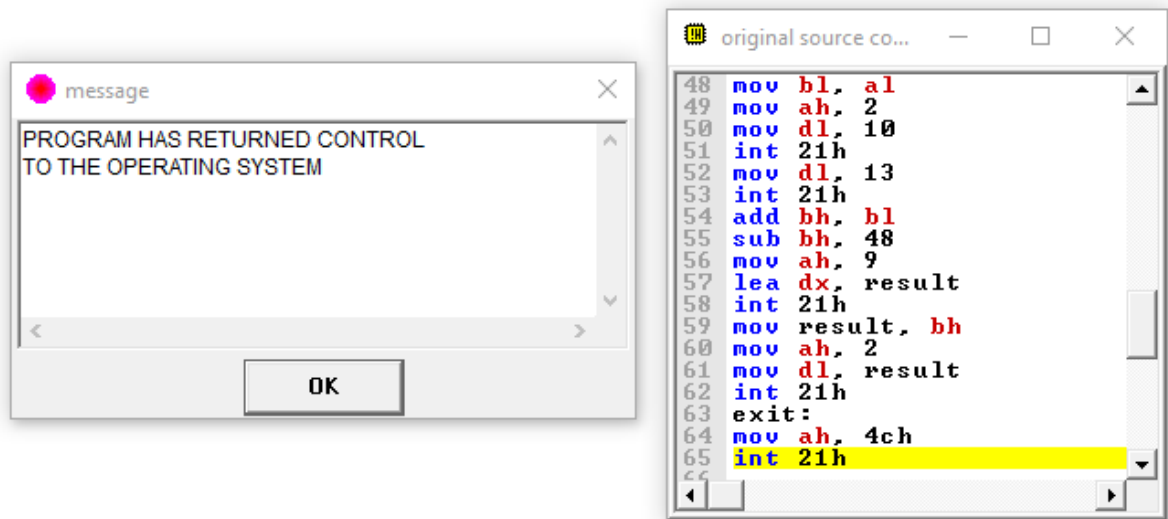
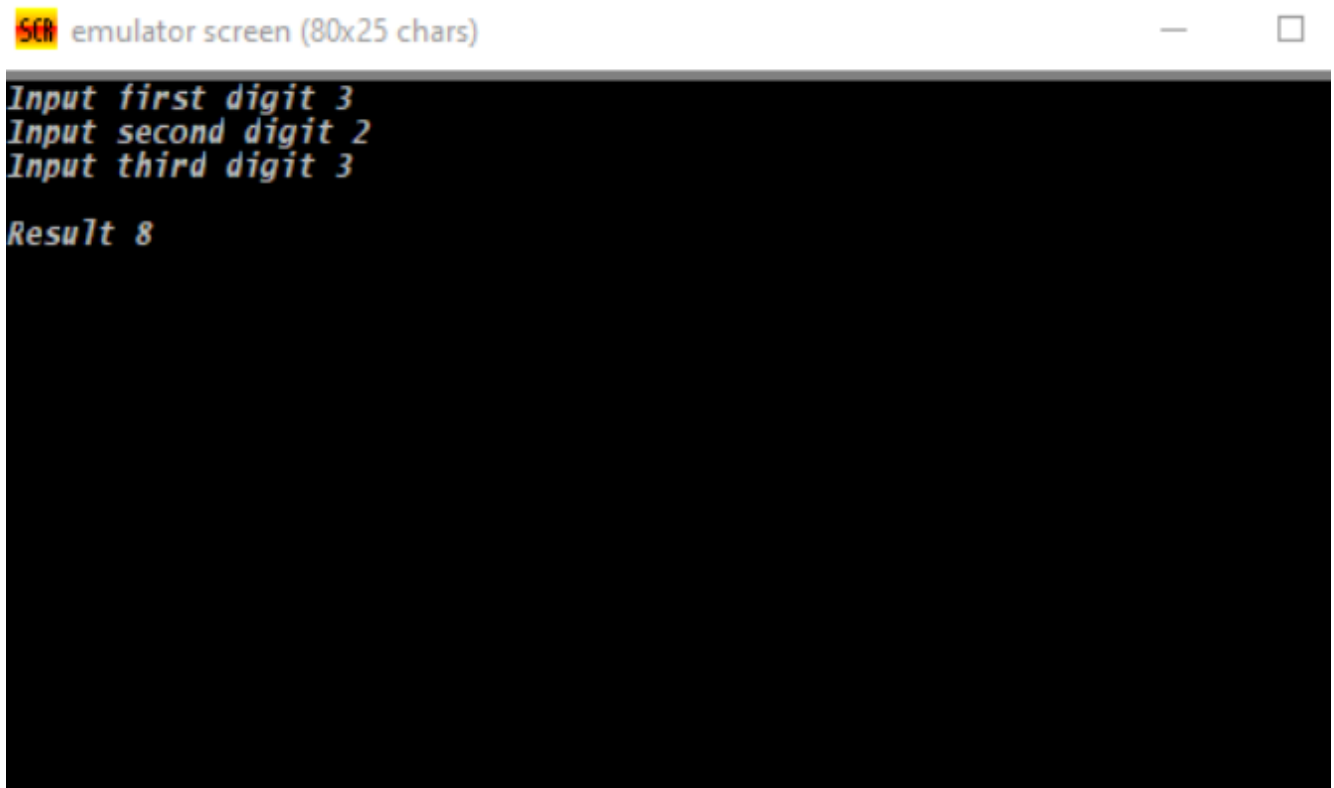


Figure 3:

2 Desired Output

A screenshot of a terminal window titled "emulator screen (80x25 chars)". The terminal displays the following text in a monospaced font: "Input first digit 3", "Input second digit 2", "Input third digit 3", and "Result 8". The text is white on a black background. The terminal window has a standard macOS-style title bar with a red close button, a yellow maximize button, and a green window control button.

```
emulator screen (80x25 chars)
Input first digit 3
Input second digit 2
Input third digit 3
Result 8
```

Figure 4:

3 Conclusion

In this lab report I learn how to take user input and add those input and print their sum .