



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

LAB No.2

IT-312 : ASSEMBLY PROGRAMMING LANGUAGE LAB

Adding Two Numbers

Submitted To:

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1 Objectives

In this lab I'm going to learn how to input two variable and sum them in 8086 Assembly Language.

2 Code

```
1
2 .model small
3 .stack 100 h
4 .data
5
6
7 a db 'Input frist digit: $'
8 b db 'Input sceond digit: $'
9 c db 10 , 13 , ' Result: $ '
10
11
12 .code
13
14 main proc
15
16
17
18 mov ax , @data
19 mov ds , ax
20
21
22 mov ah , 9
23 lea dx , a
24 int 21h
25
26
27 mov ah , 1
28 int 21h
29 mov bl , al
30
31
32 mov ah , 2
33 mov dl , 10
34 int 21h
35 mov dl , 13
36 int 21h
37
38 mov ah , 9
39 lea dx , b
40 int 21h
41
42 mov ah , 1
43 int 21h
44 mov bh , al
45
```

Figure 1: Code for : x86 Code

```
46  mov ah , 2
47  mov dl , 10
48  int 21h
49  mov dl , 13
50  int 21h
51
52  mov ah , 9
53  lea dx , c
54  int 21h
55
56  add bl , bh
57
58  sub bl , 48
59  mov ah , 2
60  mov dl , bl
61  int 21h
62
63  exit :
64  mov ah , 4ch
65  int 21h
66  main endp
67  end main
```

Figure 2: Code for : x86 Code

3 Output

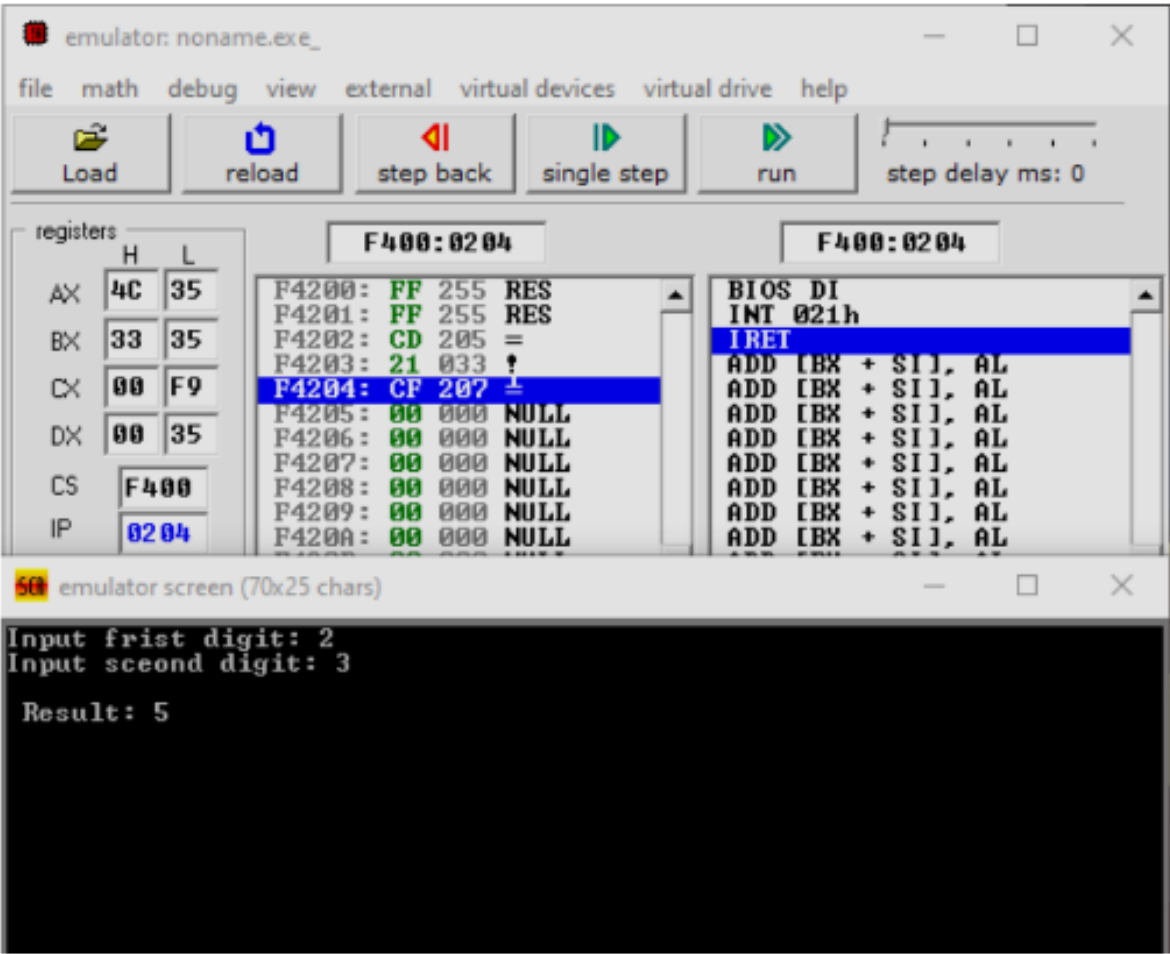


Figure 3: Multiplication table

4 Conclusion

In this lab I have learned about how to input two variable and add those variable and show the result in another variable in 8086 Assembly programming Language.