COMPUTER SCIENCE DEPARTMENT

Computer organization and Assembly language

Lab Task # 03

Last date of Submission: 11th March 2024

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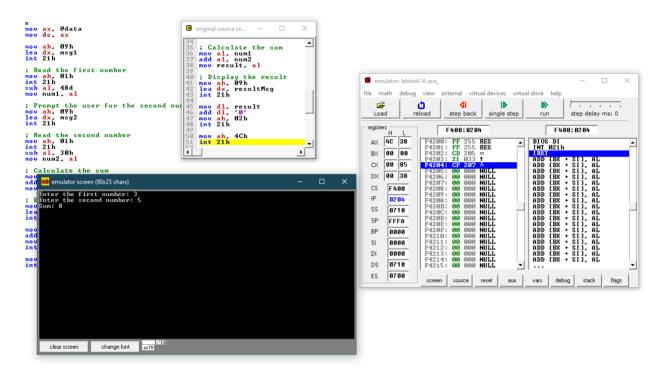


Code # 01

```
open examples save compile emulate calculator convertor op
01
    .model small
     .data
03
           num1 db?
Й4
           num2 db?
           result db?
msg1 db "Enter the first number: $"
msg2 db 10d, 0Dh, "Enter the second number: $"
resultMsg db 10d, 13d, "Sum: $"
05
06
08
09
10
           mov ax, @data
12
13
           mov ds. ax
           mov ah, 09h
lea dx, msg
int 21h
14
                        msg1
16
18
           ; Read the first number
           mov ah, 01h
int 21h
19
20
21
           sub al, 48d
mov num1, al
22
23
24
25
26
           ; Prompt the user for the second number
           mov ah, 09h
lea dx, msg2
int 21h
27
28
29
           ; Read the second number
30
31
           mov ah, 01h
int 21h
32
33
           sub al, 30h
mov num2, al
34
35
36
           ; Calculate the sum
           mov al, num1 add al, num2
37
38
           mov result, al
39
           ; Display the result mov ah, 09h lea dx, resultMsg int 21h
40
41
42
43
44
           mov dl, result add dl, '0'
45
46
                       02 h
           mov ah,
int 21h
47
48
49
50
51
           mov ah,
int 21h
                         4Ch
```



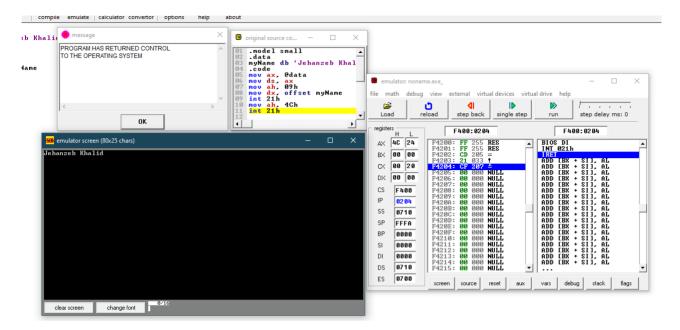
Output



Code #02

```
.model small
.data
myName db 'Jehanzeb Khalid$'
.code
mov ax, @data
mov ds, ax
mov ah, @9h
mov dx, offset myName
int 21h
mov ah, 4Ch
int 21h
```





Code #03



```
examples
                            save | compile emu
   .model small
   .data
         name1 db
        name2
4567890123456789012345678901234567890123456789012345678901234567890123
                 db
         name3
                  db
         name4
                  db
         name5
         name6
                  db
        name7
                  db
         name8 db
         name9
         name10 db
        name11 db
name12 db
                       'a'
'1'
'i'
         name13 db
         name14 db
         name15 db
   .code
  main:
         mov ax, Odata
         mov ds, ax
         mov ah, 02h
         mov dl, name1 int 21h
        mov dl, name2 int 21h
         mov dl, name3
         int 21h
         mov dl, name4 int 21h
         mov dl, name5 int 21h
         mov dl, name6 int 21h
         mov dl, name7 int 21h
         mov dl, name8
         int 21h
         mov dl, name9 int 21h
         mov dl.
int 21h
                    name10
        mov dl, name11 int 21h
         mov dl, name12 int 21h
         mov dl. name13
         int 21h
         mov dl, name14 int 21h
         mov dl.
int 21h
                     name15
         mov ah,
int 21h
                     4Ch
```



OUTPUT

