

[view source](#)[print?](#)

```
01 .model small
02 .stack 100h
03 .data
04 prompt db 13, 10, 'First number:', '$'
05 prompt db 13, 10, 'Second number:', '$'
06 result db 13, 10, 'Sum', '$'
07
08 ;Variables
09
10 num1 db ?
11 num2 db ?
12 sum db ?
13
14 .code
15 main proc
16
17     mov ax, @data           ;get data segment address
18     mov ds, ax             ;initialize ds
19
20 ;Display Prompt
21
22     mov ah, 9               ;print string function
23     mov dx, offset prompt; ds:dx points to string
24     int 21h
25
26 ; Numbers from the user
27     mov ah, 1               ;input function
28     int 21h
29     mov bl, al              ;save the value from input
30     mov num1, al
31
32     mov ah, 9
33     lea dx, prompt          ;print prompt
34     int 21h
35
36     mov ah, 2               ;input second function
37     int 21h
38     mov bh, al              ;save the value from second input
39     mov num2, al
40
41 ;Addition
42     mov ax, num1            ;move num1 into ax
```

```
43      add ax,num2          ;add first and second numbers together
44      mov sum,ax          ;move the total sum of numbers in sum
45
46
47
48 ;Print Sum
49      mov ah,9
50      lea dx, result      ; print result
51      int 21h
52
53      mov ah,2
54      mov dl,b1
55      int 21h
56
57      mov dl,'+'          ;display + sign
58      int 21h
59
60      mov dl,bh
61      int 21h
62
63
64      mov dl,'='          ;display = sign
65      int 21h
66
67      mov dl,bh
68      int 21h
69
70      mov ah,4ch
71      int 21h
72
73 main endp
74
75
76 end main
```