**Code:**

%macro write 2

mov eax, 4

mov ebx, 1

mov ecx, %1

mov edx, %2

int 80h

%endmacro

%macro read 1

mov eax, 3

mov ebx, 2

mov ecx, %1

mov edx, 9

int 80h

%endmacro

section .data

str1 db "Enter a number: "

str1len equ $-str1

str2 db "The sum is: "

str2len equ $-str2

section .bss

num1 resb 4

num2 resb 4

sum resb 4

section .text

global \_start

\_start:

write str1, str1len

read num1

read num2

mov esi, 2

mov ecx, 3

clc

add:

mov al, [num1 + esi]

adc al, [num2 + esi]

aaa ;ascii adjust after addition

pushf

or al, 30h

popf

mov [sum + esi], al

dec esi

loop add

write str2, str2len

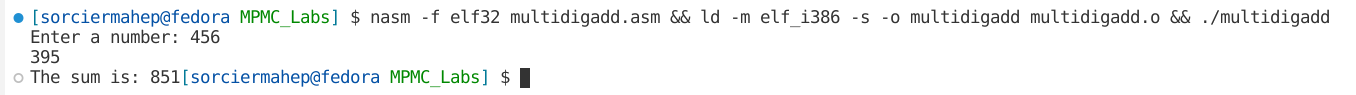
write sum, 4

mov eax, 1

mov ebx, 0

int 80h

**Output:**

****

**Code:**

%macro write 2

mov eax, 4

mov ebx, 1

mov ecx, %1

mov edx, %2

int 0x80

%endmacro

%macro read 2

mov eax, 3

mov ebx, 2

mov ecx, %1

mov edx, %2

int 0x80

%endmacro

section .data

str1 db "Enter first number: "

str1len equ $-str1

str2 db "Enter second number: "

str2len equ $-str2

show db "The difference: "

showlen equ $-show

nl db '', 10

nllen equ $-nl

section .bss

num1 resb 4

num2 resb 4

diff resb 4

section .text

global \_start

\_start:

write str1, str1len

read num1, 4

write str2, str2len

read num2, 4

mov esi, 2

mov ecx, 3

clc

sub\_loop:

mov al, [num1 + esi]

sbb al, [num2 + esi]

aas ; ascii adjust after subtraction

pushf

or al, 30h

popf

mov [diff + esi], al

dec esi

loop sub\_loop

write show, showlen

write diff, 4

write nl, nllen

mov eax, 1

xor ebx,ebx

int 0x80

**Output:**

