**AIM:** Write an assembly language program to find GCD/LCM of 2 numbers using procedures.

**PROGRAM CODE:**

.model small

.stack 100

.data

n1 dw 0004

n2 dw 0002

hcf dw ?

lcm dw ?

.code

mov ax,@data

mov ds,ax

mov ax,n1

mov bx,n2

call gcdiv

proc gcdiv

WHIL:mov dx,0

mov cx,bx

div bx

mov bx,dx

mov ax,cx

cmp bx,0

JNE WHIL

mov hcf,ax

mov cx,ax

endp gcdiv

call lcmul

proc lcmul

mov ax,n1

mov bx,n2

mul bx

div cx

mov lcm,ax

endp lcmul

mov ah,4ch

int 21h

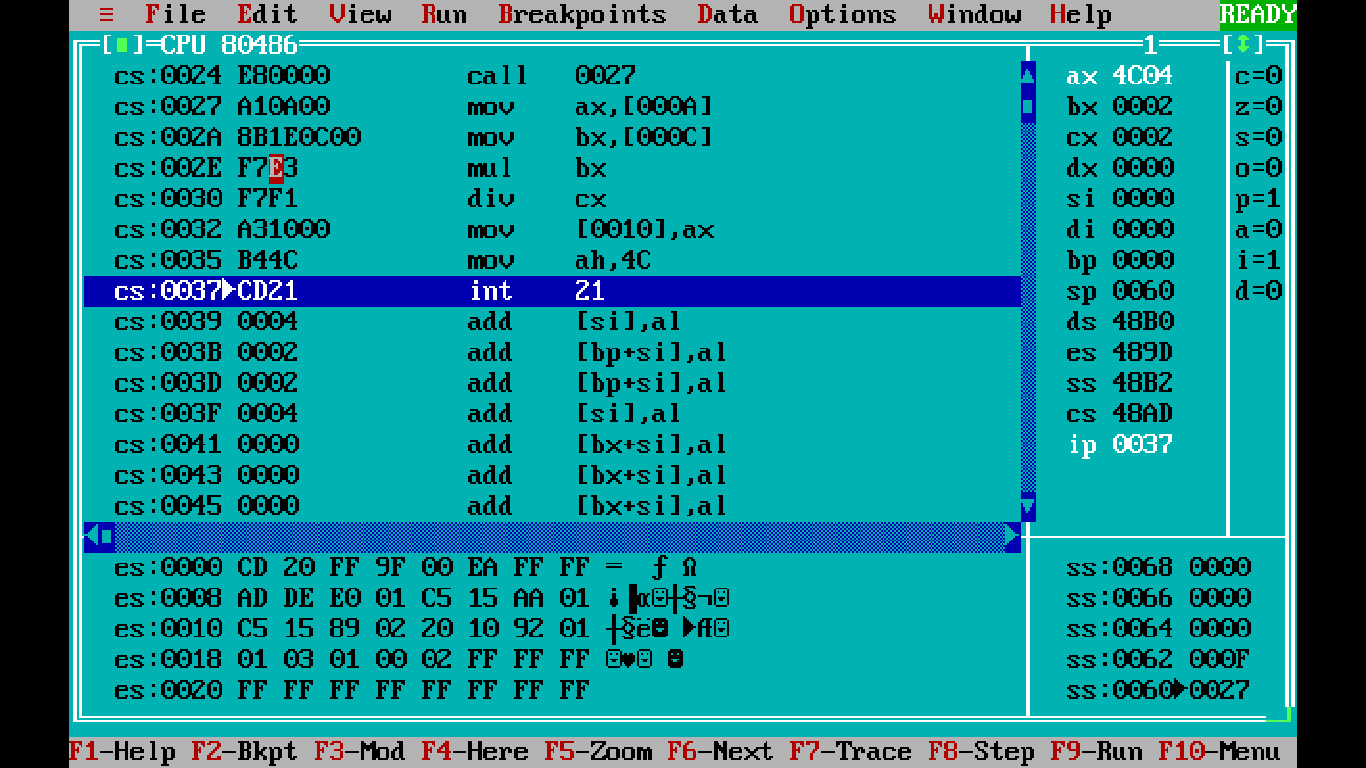
end

**OUTPUT:**

**The 2 numbers are 4 and 2.**

**GCD(cx): 2**

**LCM(ax): 4**

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