Signed Division(8-bit):

.model small

.data

num1 dw -84h

num2 dw -2h

quo db 0

rem db 0

.code

main proc

mov ax,@data

mov ds,ax

mov ax,num1

mov bx,num2

idiv bx

mov quo,al

mov rem,ah

mov ah,4ch

int 21h

end main