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**WEEK 15 (LAB TASK):**

.model small

.stack 100h

.data

num1 db 5 ;First number

num2 db -5 ;Second number (result will be zero)

result db ? ;To store the result

zero\_msg db "The result is zero!$",0

non\_zero\_msg db "The result is not zero!$",0

.code

main proc

mov ax,@data

mov ds,ax

;Load the numbers and perform addition

mov al,num1

add al,num2

mov result,al

;Check if the result is zero

cmp al,0

jz zero\_label ;Jump if Zero Flag(ZF) is set

;If not zero,display "The result is not zero!"

mov ah,9

mov dx,offset non\_zero\_msg

int 21h

jmp end\_prog ; Skip the zero result part

zero\_label:

;If result is zero,display "The result is zero!"

mov ah,9

mov dx,offset zero\_msg

int 21h

end\_prog:

; Exit the program

mov ah,4ch

int 21h

main endp

end main