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; Author:
 Assignment Title:
                           Sum of Two
                           This program will prompt the user for two integers
 Assignment Description:
                           sum them together, outputting the sum to the screen
; Due Date:
                           02-17-2023
                           02-16-2023
; Date Created:
; Date Last Modified:
                           02-17-2023
.586
.MODEL FLAT
INCLUDE io.h
                        ; header file for input/output
.STACK 4096
.DATA
prompt1 BYTE
                "Enter first number", 0
                "Enter second number", 0
prompt2 BYTE
                 "Enter third number", 0
prompt3 BYTE
string BYTE
                40 DUP (?)
resultLbl BYTE
                "The sum is", 0
                11 DUP (?), 0
sum
        BYTE
.CODE
_MainProc PROC
                prompt1, string, 40
        input
                                        ; read ASCII characters
        atod
                string
                                                ; convert to integer
                ebx, eax
                                                ; store in memory
        mov
        input
                prompt2, string, 40
                                        ; read ASCII characters
        atod
                string
                                                ; convert to integer
                                                ; add 1st integer to second integer
        add
                eax, ebx
                                                ; store in memory
           mov
                    ebx, eax
           input prompt3, string, 40
                                            ; read ASCII characters
                                                ; convert to integer
        atod
                string
        add
                                                ; add 3rd integer to value in eax
                eax, ebx
        dtoa
                sum, eax
                                                ; convert to ASCII characters
                                        ; output label and sum
        output resultLbl, sum
        sub
                eax, eax
                                                ; exit with return code 0
        ret
                                                      ; return to calling code
_MainProc ENDP
                                ; end of source code
END
```