

;Write a program to add ten 16-bit numbers stored in memory and store and display the result in decimal format.

TITLE SUM 10 15 BIT NUMBER FORM MEMORY

.MODEL SMALL

.DATA

NUMS DW 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000

SUMS DW ?

.STACK

.CODE

MAIN PROC FAR

MOV AX, @DATA

MOV DS, AX

;; CALCULATING THE SUM

MOV CX, 10

LEA BX, NUMS

MOV AX, 00

L2: ADD AX, [BX]

INC BX

INC BX

LOOP L2

MOV SUMS, AX

;; CONVERTING TO DECIMAL

MOV CX, 00

MOV BX, 10

L3: MOV DX, 00

INC CX

DIV BX

CMP AX, 00

PUSH DX

JG L3

;; PRINTING IN DECIMAL

DIS: POP DX

OR DX, 30H

MOV AH, 02H

INT 21H

LOOP DIS

;; ENDING PROGRAM

MOV AH, 4CH

INT 21H

MAIN ENDP

END MAIN