Algosithm

The location of the 1st number is moved into Source Index (31) & the location to store the sum is moved into Destination Index (DI). The 1st number is moved from the location in SI to AX. Then SI in incremented twice to get the location of the 2nd number. The 2nd number is moved from the location in SI to BX. BX is added to AX & the sum is stored in AX. If there is no carry, jump to location 0415H. Otherwise 0001 is moved to the location in DI & DI is then incremented. If no carry 0000 is moved to the location in DI & DI is then incremented. The sum is then moved from AX to the location in DI. Then the program ends with the HLT instruction.

Input

0600/01 0600/03

2 5 2 5

0604/05 0606/07

00 75

Output

0500/01 0502/03 0504/05

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o the addition of two 16-	bit numbers using 808	6 tenaînesi kit
Instauction	Comment	
MOV \$1,0600	Set sousce index to 0600H	
MOV DI, 0500	8et destination index to 0500H	
Mov xx, [si]	Move the 1st number forom SI to AX	
INC SI		
INC SI	floy	
Mov BX, [si]	Move the 2nd numbers forom SI to BX	
ADD AX, BX	Add the 2 numbers	
JNC 0415	Jump to 0415H 97 theou is no casely	
MOV [DI], 0001		
JMP 0418	Jump to 0418H	
MOV [DI],0000		
INC DI		
MOV [ID] VOM	Move the sum to destination index	
HLT		
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