Algosithm

The location of 1st numbers is moved into Source Index (SI) & location to store the result is moved into Destination Index (DI). DX is initialized to ODOO. The dividend is moved from location in SI to AX. Then SI is incremented twice to get the location of the divisor. The divisor is moved from location in SI to BX.

DX: AX is divided by BX. Now quotient is in AX & remainder is in DX. AH is moved to location in DI. DI is incremented. AL is moved to location in DI.

Again DI is incremented. DH is moved to location in DI. Again DI is incremented. DL is moved to location in DI. Then the program ends with the HLT instruction.

Input

0600/01 0602/03

F F F F

0604/05 0606/07

0 0 F F

Output

0500/01 0502/03 0504/05 0506/07

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Address	Instauction	Comment
0400	MOV D1, 0500	set destination index to 050014
0403	MOV 81,0600	Set source index to 0600H
0406	MOV DX,0000	Set DX to 0000
0409	MOV AX, [SI]	Move 1st number forom SI to AX
0408	INC SI	
040C	INC SI	
040D	MOV BX, [SI]	Move divisor forom SI to BX
040F	DIN BX	Divide DX: AX by BX
0411	HE, [ID] VOM	Move AH to clastination index
0413	INC DI	
0414	MOV [DI], AL	Move AL to destination inclex
0416	INC DI	
0417	MOV [DI] , DH	Move DH to destination index
0419	INC DI	
0412	אטע [הו] , הג	Move DL to destination index
041C	HLT	
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