Algosithm

The location of the number is moved into Source Index (31) & the location to store the result is moved into Destination Index (DI). The number is moved from the location in 31 to 11. DX is initialized to DODD & BX is initialized to DODD & BX is initialized to DODD. DX: AX is divided by BX. Now quotient is in 11. AX & remainder is in DX DX is compared with DODD. If it is greater than DODD, jump to location D41BH. Otherwise DE is moved to location in D1. If remainder is greater than DODD, OD is moved to location in D1. Then the program ends with the HLT instruction.

Input

0600/01 0602/03

Output

0500/01 0 E

periment Name / No	13. ODD OR EVE	N Camlin Page No. 41
		Date 25   02   20
Aim		
	hethesi a given numbe	0. %
8	THE THE THE THE	st is bdd bat even.
Рэюдэнат		
5 Address	Instauction	Comment
0400	MOV DI, 0500	Set destination index to 0500H
0403	MOV 81, 0600	Set sousice index to 0600H
0406	MOV AX, [SI]	Move number from SI to AX
0408	MOV DX,0000	Set DX to 0000
040B	MOV BX,0002	Sel- BX to 0002
040E	DIV BX	Divide the number DX: AX by BX
0410	CMP DX,0000	Compane DX with 0000
0414	JG OA1B	Jump to 041BH if generates than O
0416	MOV [DI], OE	Move DE to destination index
0419	JMP 041E	Jump to 041EH
0418	00, [10] VOM	Move 00 to destination index
0416	HLT	
Result poind wh	ethes a given numbes	i is odd on even.
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5		
		Teacher's Signature: