Algosithm The location of 1st numbers is moved into Source Index (31) & location to store the peroduct is stopped in Destination Index (DI). The 1st number is moved into AX. Then SI is incommented trice & the 2nd number is moved forom the Location in 31 into BX. AX is multiplied with BX & the nesult is stoored in DX: AX. DH is moved to location in DI. DI is incommented. DL is moved to location in DI. Again DI is incommented. Alt is moved to location in DI. Again DI is incommented. AL is moved to location in DI. Then the pologonam ends with the HLT instruction. Input 0600/01 0602/03 0604/05 0606/07 Output 0502/03 0504/05 0506/07 FEOO

Alim To perform the multiplication of two 16-bit numbers using 8086 toxines kit. Program Address Instruction Comment 0400 Mov DI, 0500 Set destination index to 0500H 0403 Mov SI, 0600 Set source index to 0600H 0406 Mov AX, [SI] Move the 1st number Jown SI to AX 0408 INC SI 0409 INC SI 0400 Mov BX, [SI] Move the 2nd number Jown SI to BX 0400 Mov BX, [SI] Move the 2nd number Jown SI to BX 0400 Mov BX Multiply the 2 numbers 0400 Mov DII, DH Move DI to destination index 0410 INC DI 0411 Mov [DI], DL Move AL to destination index 0416 INC DI 0417 Mov [DI], AL Move AL to destination index 0419 HLT	eriment Name / No.	MULTIPLICATION OF	TWO 16-BIT NUMBERS Camlin Page No. Date 25 1 02	
Paragram Address Instruction Comment 0400 MOV DI, 0500 Bet destination index to 0500H 0403 MOV SI, 060D Bet source index to 0600H 0406 MOV AX, [SI] Move the 1st number form SI to AX 0408 INC SI 040A INC SI 040A MOV BX, [SI] Move the 2nd number form SI to BX 040A MUL BX Multiply the 2 numbers 040C MUL BX Multiply the 2 numbers 040E MOV [DI], DH Move DIT to destination index 041D INC DI 0411 MOV [DI], AH Move AH to destination index 0416 INC DI 0417 MOV [DI], AL Move AL to destination index	Aim	at he had had at at at	Library Laboratory	
Add scess Instruction Comment 0400 MOV DI, 0500 Set destination index to 0500H 0403 MOV SI, 0600 Set societie index to 0600H 0406 MOV AX, [Si] Move the 1st number grown SI to AX 0408 INC SI 0409 INC SI 0400 MOV BX, [Si] Move the 2nd number from SI to BX 0400 MUL BX Multiply the 2 numbers 0400 MOV [Di], DH Move DI to destination index 0410 INC DI 0411 MOV [Di], AH Move AH to destination index 0416 INC DI 0417 MOV [Di], AL Move AL to destination index				kit.
MOV DI, 0500 Set destination index to 0500H 0403 MOV SI, 060D Set source index to 0600H 0406 MOV AX, [SI] Move the 1st number grown SI to AX 0408 INC SI 040A MOV BX, [SI] Move the 2nd number from SI to BX 040C MUL BX Multiply the 2 numbers 040E MOV [DI], DH Move DI to destination index 0413 INC DI 0414 MOV [DI], AH Move AH to destination index 0416 INC DI 0417 Move [DI], AL Move AL to destination index	Рэюдэнат	and substitutes in the color	a hand my last the last of the last	Ch. III
MOV SI, 060D Set source index to 060DH MOV AX, [SI] Move the 1st number grown SI to AX O408 INC SI O409 INC SI Move the 2nd number from SI to BX O400 MUL BX Multiply the 2 numbers O40E MOV [DI], DH Move DIT to destination index O410 O411 MOV [DI], AH Move AH to destination index O416 INC DI O417 Move DI to destination index Move AH to destination index	Addness	Instauction	Comment	
Move the 1st number going SI to AX O408 INC SI O409 INC SI O400 Move the 2nd number from SI to BX O400 MUL BX Multiply the 2 numbers O40E Move DIT to clestination index O410 INC DI O411 Move DIT, DL Move DL to destination index O412 O414 Move DIT, AH Move AH to destination index O416 INC DI O417 Move DIT, AL Move AL to clestination index	0400	MOV DI, 0500	Set destination index to 0500H	
O408 INC SI O409 INC SI O409 INC SI O409 INC SI O409 Mov Bx, [SI] Move the 2nd number from SI to BX O400 MUL BX Multiply the 2 numbers O40E MOV [DI], DH Move DI to clestination index O410 INC DI O411 Mov [DI], DL Move DL to destination index O413 INC DI O414 Mov [DI], AH Move AH to clestination inclex O416 INC DI O417 Mov [DI], AL Move AL to clestination index	0403	MOV 81, 0600	Set source index to DGODH	
O408 INC SI O409 INC SI O409 INC SI O400 INC SI O400 MOV BX, [SI] Move the 2nd number from SI to BX O400 MUL BX Multiply the 2 numbers O40E MOV [DI], DH Move DIX to destination index O410 INC DI O411 MOV [DI], DL Move DL to destination index O413 INC DI O414 MOV [DI], AH Move AH to destination index O416 INC DI O417 MOV [DI], AL Move AL to destination index	0406	MOV MX, [SI]	Move the 1st number forom SI to 2)	
Move the 2nd number forom SI to BX O40C MUL BX Multiply the 2 numbers O40E MOV [Di], DH Move DI to clestination index O41D INC DI O411 MOV [Di], DL Move DL to destination index O413 INC DI O414 MOV [Di], AH Move AH to destination inclex O416 INC DI O417 MOV [Di], AL Move AL to clestination index	0408	INC SI		
Move the 2nd number form \$1 to BX Multiply the 2 numbers Move DIT to destination index	0409	INC SI		
MUL BX Multiply the 2 numbers Mov [Di], DH Move DH to clestination index O410 INC DI Mov [Di], DL Move DL to destination index O413 INC DI O414 Mov [Di], AH Move AH to clestination index O416 INC DI Move AL to clestination index		MOV BX, [SI]	Move the 2nd numbers forom SI to B	X
040E MOV [Di], DH Move DIX to clestination index 0410 INC DI 0411 MOV [Di], DL Move DL to destination index 0413 INC DI 0414 MOV [Di], AH Move AH to clestination inclex 0416 INC DI 0417 MOV [Di], AL Move AL to clestination index	0400	MUL BX		
Mov [Di], DL Move DL to destination index O413 INC DI O414 Mov [Di], AH Move AH to destination index O416 INC DI O417 Mov [Di], AL Move AL to destination index	040E	MOV [DI] , DH		1
O413 INC DI O414 MOV [DI], AH Move AH to destination inclex O416 INC DI O417 MOV [DI], AL Move AL to destination index	0410	INC DI		1
0414 MOV [DI], AH Move AH to destination inclex 0416 INC DI 0417 MOV [DI], AL Move AL to destination index	0411	MOV [DI], DL	Move DL to destination index	3
0416 INC DI 0417 MOV [DI], AL Move AL to destination index	0413	INC DI		
0416 INC DI 0417 MOV [DI], AL Move AL to destination index	0414	MOV [DI], AH	Move AH to destination inclex	
	0416			
0419 HLT	0417	MOV [DI], AL	Move AL to destination index	
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	Result	1101010000000	16-bit numbers using 8086 tomines	kil-
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