The location of choice is moved to A. If it is 1, addition is performed; 2, subtraction is performed; 3, multiplication is performed; 4, division is performed; else, program stops. For addition, 1st number is in R52 2nd number is in A. If there is a carry, it is stored 1st. Then the result is stored. For subtraction, 1st number is in A2 2nd number is in R5. If there is a carry, it is stored first. Then the result is stored. For multiplication, 1st number is stored. For multiplication, 1st number is in A2 2nd number is in B. After multiplication, higher byte is stored 1st, followed by lower byte. For division, 1st number is in A2 2nd number is in B. After division, quotient is stored 1st, followed by the remainder.

Input

040

020 021 FF FF

Output

080 031 01 FE

eriment Nar	me/No.: 17. CALCULATOR			Camlin Page No. 49
1	A Landau Company of the Company of t			Date 10 / 03 / 202
1		14.18		The section of
dim	The same of the sa			
	1 11			the ball the
To de	evelop a calculation to penform	basic as	withmetic operat	long
			The state of the s	WIS.
1000	The same of the same of	- Laston		
Parma	om.			
15009		1	MNV ADA D	
5	ORG OOH MOV RO, #40H; choice	Anna di	MOV @R1, B; copy	B to K1
	MON A, @RO; copy RO to A	SAVE2:	MOV @R1, A; copy	1 do 01
	CINE A, #DIH, 11; comprae with OH		SIMP HALT2	א סר א
	JMP ADDI; Jump to ADDI	MULT:	MOV RO,#20H; 800	1910
L1:	CINE A, # 02H, 12; compage with 02H		MOV R1,#30H; de	
	JMP SUBT; jump to SUBT		MOV A, ORO; cope	L RO to A
12:	CINE A, #03H, L3; compraso with 03H		INC BO	
L3:	JMP MULT; jump to MULT		MOV B, @RO; copy	RO to B
Lo.	CINE x, # O4H, HALT; comprare with D4H		MUL AB; multiple	1 d & B
4DDI:	TMP DIVI; Jump to DIVI		MUY (RI, B; copy	B to R1
	MOV RO, #20H; source MOV R1, #30H; clestination		INC R1	
	MOV A. ORD: COOL RD to A	HALT3:	MOV @R1, A; copy	A TO KI
	MOV A, @ RO; copy RO to A MOV RS, A) copy A to RS	DIVI :	MOV RO,#20H; 80	0119440
	MOV R4, # ODH, set R4 to OOH		MOV R1, #301+; d	
	INC RO		MOV A, @RO; copy	
	MOV A, @RO; copy RO to A		INC RD	
	ADD A, R5; add A & R5		MOV B, @RO; copy	RO to B
	JULY SAVET; Jump 1) no coory	Charles San	DIV AB; divide:	Abur
	INC R4		MOV @R1, A; copy	qualient to R1
	MDV B, R4; copy covery to B		INC R1	
	MOV @R1, B; copy B to R1	HALTA!	STMP HALTA	gemainded to R1
SAYE1:	MOV @R1, A; copy & to R1	HALT:		
HAIT1:	STMP HALTI	risac (,	STMP HALT	
SUBT!	MOV RO,#20H; BOURICE			
	MOV R1,#304; destination			
	MOV X, @RO; copy RO to X			
	MOV RS, A; copy A to R5			
	MOV R+, #OOH; Set R4 to OOH			
	MOV A, ORO; copy RO to A			
	MOV R3, A; copy A to R3			
	MOV A, RS; copy RS to A			
	SUBB A, R3; subtonet A& R3			
	JNC SAVEZ; Jump of no caseiy			
	INC R4	-		
	MOV B, R4; copy R4 to B			
-	INC R4			
Result				
THEATT			10	
Develope	od a calculator to perform to	ic anitha	netic operations.	
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			3,000	