PROCEDURE:

- 1. Enter the program from location 2000 onward using EXMEM Command. Also enter the data at locations 2100 and 2101.
- 2. Execute the program from 2000 using GO key and examine the result at location 2102. (Press G; enter the starting address of the program then press shift and then 4(\$))

PROGARM:

PROGARM: MNEMONICS					
ADDRESS	MACHINE CODE	LABEL	OPCODE	OPRAND	COMMENTS
2000 H 2003 H 2004 H 2006 H 2007 H 2008 H 2009 H 200C H 200D H 200E H 200E H	3A 01 22 47 3E 99 90 3C 47 3A 00 22 80 27 32 00 23 76		LDA MOV MVI SUB INR MOV LDA ADD DAA STA HLT	2201H B,A A 99 H B A B,A 2200 H B	Get the subtrahend in B-reg. Get 10's compliment of subtrahend. Save 10's compliment in B Get the minuend in A-reg. Get the BCD sum of minuend and 10,s compliment of subtrahend. Store the result in memory. Stop the program

EXAMPLE:

		Data
Address 2200 H		32 (Minuend)
2200 H		12 (Subtrahend)
Result:		
2300 H	:	20 (Difference)

32-12=20 **RESULT:**



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