



Microprocessor 8085 Photo credits: kollewin.com

2000	LDA ,2050h	3A	Clear Accumulator.
2001		50	
2002		20	
2003	MOV C,A	4F	Clear Register C.
2004	LDA ,2051h	3A	Store the First no. in Accumulator.
2005		51	
2006		20	
2007	MOV B,A	47	Copy this No. to Register B
2008	LDA, 2052h	3A	Store the second No. in Accumulator.
2009		52	
200A		20	
200B	ADD B	80	Add the two Nos.
200C	STA ,2053h	32	Store the result
200D		53	
200E		20	
200F	JNC , 2013h	D2	Check for carry
2010		13	
2011		20	
2012	INR C	0C	Increment Register C
2013	MOV A,C	79	Copy the Carry to Accumulator
2014	STA ,2054h	32	Store the Carry
2015		51	
2016		20	
2017	HLT	76	Program Terminated.

INPUT DATA:

- a) 2050-00h 2051-04H(B) 2052-03H(C)
 Output: 2053-07H(SUM) 2054-00(CARRY)
- b) 2050-00h 2051-FAH(B) 2052-ABH(A)
 Output: 2053-A5(sum) 2054-1(carry)



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I'm a physicist specializing in computational material science with a PhD in Physics from Friedrich-Schiller University Jena, Germany. I write efficient codes for simulating light-matter interactions at atomic scales. I like to develop Physics, DFT, and Machine Learning related apps and software from time to time. Can code in most of the popular languages. I like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

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