

8085 Program to separate bytes to nibbles in 8085

The below program is based on 8085 ANSHUMAN kit. So the address is from 7000

MEMORY ADDRESS	LABEL	OPCODE	MNEMONIC	COMMENTS
7000		0E	MVI C ,00	SET C Reg to 00
7001		00		
7002		3A	LDA 7200	Load Accumulator with the data stored in 7200
7003		00	00	
7004		72	72	
7005		4F	MOV C,A	Copy data of Acc to Creg
7006		E6	ANI 0F	AND the data of Accumulator with 0F.this will separate the 2 nd digit from 2 digit number.
7007		0F		
7008		32	STA 7201	Store content of Accumulator at location 7201
7009		01		
700A		72		
700B		79	MOV A,C	Move the content of reg C to Accumulator
700C		E6	ANI F0	AND the data of Accumulator with F0.this will separate the 1 st digit from 2 digit number.
700D		F0		
700E		0F	RRC	Rotate the Content of Accumulator to Right 4 times
700F		0F	RRC	
7010		0F	RRC	
7011		0F	RRC	
7012		32	STA 7202	Store the data of Accumulator at location 7202
7013		02		
7014		72		
7015		76	HLT	Stop