

Program 11:

Write a program to separate a hex no. into 2 nibbles. The hex no. is stored in 2501H. The least significant nibble of the byte is to be stored in 2502H and the most significant bit to stored in 2503H.

Address	Label	OPCode	Operand	Comments
8000H		LDA	2501H	Load contents of 2501H into Accumulator
8003H		ANI	0FH	Perform AND operation with $(0F)_{16}$ to Accumulator
8005H		STA	2502H	Store Result in location 2502h
8008H		LDA	2501H	Load contents of 2501H into Accumulator
800BH		ANI	FOH	Perform AND operation with $(FO)_{16}$ to Accumulator.
800DH		RRC		Right Shift bits of Accumulator 4 times.
800EH		RRC		
800FH		RRC		
8010H		RRC		
8011H		STA	2503H	Store result in location 2503h
8014H		HLT		Halt