

Practical No-3

Aim Writing and execution of ALP for addition of two 8-bit numbers.

Apparatus 8085 kit

Program

Memory address	OpCode (Hex)	Memorics	Comment
2000	3E	MVI A 56H	Place 1 st no. in accumulator.
2001	56		
2002	06	MVI B 49H	Place 2 nd number in B register.
2003	49		
2004	80	ADD B	Add the contents of A+B registers.
2005	32	STA 2503H	Store the contents of Accumulator at 2503H memory address.
2006	03		
2007	25		
2008	76	STOP	END OF Program

Procedure

1. Switch on the power supply and kit will display "UP 8085".
2. Press reset & examine memory & program starting memory address & next & opcode & next and so on up to the end of the program opcodes.

3. To execute the program press Reset and start starting address and execute buttons.

4. To check the result press Reset and examine memory and memory address and Next.

Result → We have seen the result 9FH which is the addition of 56H and 49H at the memory address 2503H.