

BITT POLYTECHNIC

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EXPERIMENT NO.

AIM: - Basic arithmetic (Decimal addition of two numbers & result should not be less than 100.)

APPARATUS: - 8085 microprocessor kit.

PROGRAMING PROCEDURE

PROGRAM

Reset → Rel Exmem → Initial Address(2000) → Fill

Execute

Reset → Delgo → Initial Address (2000) → Fill

Result

Reset → Rel Exmem → 2002 → Next

PROGRAM

Address	opcode	Label	Mnemonic	Operand	Comments
2000	DATA				;1st no to be address
2001	DATA				;2 nd no to be added
2002	RESULT				;result
2003	21 00 20	START	LXI	H,2000	;Point to 1 st no.
2006	7E		MOV	A,M	;Load the accumulator
2007	23		Inx	H	;Advance pointer
2008	86		ADD	M	;Add, 2 nd number
2009	27		DAA	H	Convert to decimal
200A	23		INX	H	;Point storage
200B	77		MOV	M,A	;Store in
200C	EF	RST	5		

EXAMPLE

Address	Data
2000	15 Data in decimal
2001	20 Data in decimal
2002	25 Answer