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RESULT:

FACTORIAL OF A GIVEN NUMBER USING 8085 MICROPROCESSOR

EXP NO: 9

AIM: To find the factorial of a given number using 8085 microprocessor.

PROGRAM:

ADDRESS	MNEMONICS	COMMENTS			
8100	LXI H,8500H	Load data from memory			
8103	MOV B,H	Load data to B register			
8104	MVI D,01H	Set D register with 1			
8106	CALL MULTIPLY	Subroutine call for			
		multiplication			
8109	DCR B	Decrement B			
810A	JNZ FACTORIAL	Call factorial till B becomes 0			
810D	INX H	Increment memory			
810E	MOV M,D	Store result in memory			
810F	HLT	Halt			
8200	MOV E,B	Transfer contents of B to C			
8201	MVI A,00H	Clear accumulator to store			
		result			
8203	MULTIPLYLOOP: ADD D	Add contents of D to A			
8204	DCR E	Decrement E			
8205	JNZ MULTIPLYLOOP	Repeated addition			
8208	MOV D,A	Transfer contents of A to D			
8209	RET	Return from subroutine			

INPUT: 8500 05H

OUTPUT: 8501 78H

RESULT:

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