16-BIT DIVISION

EXP NO: 8

AIM: To write an Assembly language program to implement 16-Bit Division using 8086 processor.

PROGRAM:

ADDRESS	MNEMONICS	COMMENTS
1100	MOV DX,0000	Clear DX registers
1103	MOV AX,0006H	Load the dividend in AX
1106	MOV CX,0004H	Load the divisor value in BX
1109	DIV CX	Divide the two data's
110B	MOV DI,1300H	Load 1300 address into DI
110E	MOV [DI],AH	Load AL value into DI
1110	INC DI	Increment DI
1111	MOV [DI],AH	Load AH value into DI
1113	INC DI	Increment DI
1114	MOV [DI],DX	Load DX value into DI
1116	HLT	END

INPUT:

AX 0006H

CX 0004H

OUTPUT:

1300 01H

1301 00H

1302 02H

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