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Experiment 10:
Arithmetic Operations in 8086 kits

Programme	:	**BTech. CSE Core**	Semester	:	**Win 2021-22**
Course	:	**Microprocessor and Interfacing**	Code	:	**CSE2006**
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Arithmetic Operations

Aim: To perform arithmetic Operations – Addition, Subtraction, Multiplication and Division on given input of 2 numbers

Tool Used: Assembler - MASM 611

Program:

1. Addition

MOV AX, 1234
MOV BX, 0012
ADD AX,BX
HLT

Sample Input	Sample Output
AX = 1234H	AX = 1246H
BX = 0012H	BX = 0012H

2. Subtraction

MOV AX, 1235H
MOV BX, 0014H
SUB AX,BX
HLT

Sample Input	Sample Output
AX = 1235H	AX = 1221H
BX = 0014H	BX = 0012H

3. **Multiplication**

MOV AX, 0A55H
MOV BX, 0010H
MUL BX
HLT

Sample Input	Sample Output
AX = 0A55H	AX = A559H
BX = 0010H	BX = 0010H

4. <u>Division</u>

MOV AX, 0A55H
MOV BX, 0010H
DIV BX
HLT

Sample Input	Sample Output
AX = 1235H	AX = 101CH
BX = 0023H	BX = 0023H ; DX = 0C34H