Program to add 8 bit numbers

DATA SEGMENT

A1 DB 0FFH

A2 DB 01H

A3 DB 00H

A4 DB 00H

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

MOV DS,AX

MOV AH,A1

MOV AL,A2

ADD AH,AL

JNC NEXT

INC DL

NEXT: MOV A3,AH

INT 3

CODE ENDS

END START

Program to subtract 2 8 bit numbers

DATA SEGMENT

A1 DB 56H

A2 DB 12H

A3 DB 00H

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

MOV DS,AX

MOV DL,00H

MOV AH,A1

MOV AL,A2

SUB AH,AL

MOV A3,AH

INT 3

CODE ENDS

END START

Program to multiply two 8 bit numbers

DATA SEGMENT

A1 DB 56H

A2 DB 12H

A3 DW 0000H

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

MOV DS,AX

MOV AL,A1

MOV BL,A2

MUL BL

MOV A3,AX

INT 3

CODE ENDS

END START

4. Program to divide a 16 bit number by an eight bit number

DATA SEGMENT

A1 DW 1234H

A2 DB 0F2H

A3 DB 00H

A4 DB 00H

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

MOV DS,AX

MOV AX,A1

MOV BL,A2

DIV BL

MOV A3,AL

MOV A4,AH

INT 3

CODE ENDS

END START