**Program to mul and div 8 bit no. by 8 bit**

**4. A multiplication**

#include <stdio.h>

#include <stdlib.h>

#include <pic18f452.h>//multiplication using successive addition

void main(void) {

//static int v\_mem[] = 0x55; @0x0005

int num1, num2;

int result,i;

result = 0;

num1 = 0x23;

num2 = 0x10;

for(i=1; i<=num2; i++)

{

result = result + num1;

}

TRISB =0;

PORTB = result;

TRISC=0;

PORTC=num1\*num2;

}

**4 B Division**

#include <stdio.h>

#include <stdlib.h>

#include <pic18f452.h>//Division using successive sustraction

void main(void) {

//static int v\_mem[] = 0x55; @0x0005

int dividend, divisor,quotient;

int result,i;

dividend = 0x0E;

divisor= 0x04;

result = dividend;

quotient=0;

while(1)

{

if(divisor==0)

result=0;

else if(result<divisor)

break;

else

{

result = result - divisor;

quotient=quotient+1;

}

}

TRISA=0;

PORTA=result; // remainder

TRISB =0;

PORTB = quotient; //quotient

TRISC=0;

PORTC=dividend/divisor;

}