```
#include <xc.h> //import headder file
 #define XTAL FREQ 6000000
                             //intialize the clock speed
 void lcdcmd(unsigned char); //declaration of function
 void lcddata(unsigned char);
                             //declaration of function
 void lcdoutput(unsigned int); //declaration of function
 unsigned char j,k[10],equal,plus,min,n; //declare the charector variable
 unsigned int numl, num2, m, sum; // declare the int variable
 void main()
- {
                   //call the init function
     init();
                  //store the 100 value to the numl
     num1=100:
                  //store the 200 value toi the num2
     num2=200;
     equal='=';
                    //assien the car = to the equal
     plus='+'; //assign the char + to the plus variable
     min='-'; //assign the char - to the min
     lcdcmd(0x80); //call the lcdcmd function and give the argument of 0x80
     lcdoutput(numl); //call the lcdoutput function and give the argument of numl
     lcddata(min); //call the lcdddata function and give the argument of min
     lcdoutput (num2);    //num2 will be given to the lvdoutput
                       //equla will be given the the lcddata
     lcddata(equal);
     if(numl>=num2) //check the conditon numl greater the num2
     { //will true
     sum=numl-num2; //numl-num2 and store in the sum
      lcddata(plus); //char plus will be give to the lcddata
      lcdoutput (sum); //sum willbe sent to the lcdoutput
     else
                //else
        sum=num2-num1; //sub num2-num1 and store in sum
         lcddata(min); //min will be sent to the lcddata
         lcdoutput (sum); //sum will be sent to the lcdoutput
     while(1);
```

```
void init()
-] {
 TRISC=0x00; //set TRISC set as output
 TRISD=0x00; //set TRISD set as output
 lcdcmd(0x30); //function set command
  delay ms(100); //delay
 lcdcmd(0x30); //function set command
  delay_ms(100); //delay
 lcdcmd(0x30); //function set command
 lcdcmd(0x30); //set number line of display and font
 lcdcmd(0x0C); //set for curser off and display on
 void lcdoutput (unsigned int i) //lcdoutput function
    unsigned char s, j=1; //intiallize the local variable
     m=i; //i valu store in the m
     while(m!=0) //while loop for untill m not equal 0
        s=m-((m/10)*10); //separate the last integer value
        k[j]=s; //store the seperated value to the k[j] array
        j++; //post increment
        m=m/10; //remove the last intiger of the whole integer
     k[j]='\0'; //last array of the k[j] will be set as null]
     j-=1; //j will be minus 1 and store in the j
     while(j!=0) //wile loop for untill the j not equal to 0
        j--; //post decrement
 void lcdcmd(unsigned char i) //lcd command function
} [
```

```
void lcdcmd(unsigned char i)  //lcd command function
{
    PORTC&=~(0x08); //RC3 will be set as 0
    PORTD=i; //i will be sent to the PORTD
    PORTC|=(0x01); //enable pin will be set as high
    __delay_ms(100); //delay
    PORTC&=~(0x01); //enable pin will be seat as low

}
void lcddata(unsigned char i)  //lcddata function
{
    PORTC|=(0x08); //rc3 will be set as l
    PORTD=i; //i will be sent to the port D
    PORTC|=(0x01); //enable pin will be set as l
    __delay_ms(100); //delay
    PORTC&=~(0x01); //enable pin will be set as 0
}
```