Listing Program

```
/*****************************************************
This program was produced by the
CodeWizardAVR V2.05.3 Standard
Automatic Program Generator
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Project :
Version :
Date    : 10/18/2017
Author  : Gofer
Company :
Comments:


Chip type           : ATmega8
Program type        : Application
AVR Core Clock frequency: 12.000000 MHz
Memory model        : Small
External RAM size   : 0
Data Stack size     : 256
*****************************************************/

#include <mega8.h>
#include <stdbool.h>
#include <stdio.h>
#include <delay.h>
char text[16];

#define HX711_SCK PORTB.5
```

```
#define HX711_DT PINB.4
#define HIGH 1
#define LOW 0


// Alphanumeric LCD functions
#include <alcd.h>

// Declare your global variables here
long HX711_Buffer = 0;
long Weight_Maopi = 0,Weight_Shiwu = 0;
int Weight1 = 0;
int Weight2 = 0;
int saved;
unsigned long HX711_Read(void)
{
   unsigned long count;
   unsigned char i;
   bool Flag = 0;

   HX711_DT= HIGH;

   delay_us(1);

   HX711_SCK=LOW;
   delay_us(1);

    count=0;
    while(HX711_DT);
    for(i=0;i<24;i++)
   {
```

```
        HX711_SCK=HIGH;
      delay_us(1);
                count=count<<1;
                HX711_SCK= LOW;
                delay_us(1);
                if(HX711_DT)
                        count++;
        }
        HX711_SCK= HIGH;
        count ^= 0x800000;
        delay_us(1);
        HX711_SCK= LOW;
        delay_us(1);

        return(count);
}

void Get_Maopi()
{
        HX711_Buffer = HX711_Read();
        Weight_Maopi = HX711_Buffer/100;
}

unsigned int Get_Weight()
{
        HX711_Buffer = HX711_Read();
        HX711_Buffer = HX711_Buffer/100;

        Weight_Shiwu = HX711_Buffer;
        Weight_Shiwu = Weight_Shiwu - Weight_Maopi;
        Weight_Shiwu = (unsigned int)((float)Weight_Shiwu/7.35+0.05);
```

```
        return Weight_Shiwu;
}

void save(){
    while(1){

    saved=Weight1;
    break;
    }

    }
void main(void)
{

PORTB=0x1E;
DDRB=0x20;
PORTC=0x00;
DDRC=0x03;
PORTD=0x00;
DDRD=0x01;
TCCR0=0x00;
TCNT0=0x00;
TCCR1A=0x00;
TCCR1B=0x00;
TCNT1H=0x00;
TCNT1L=0x00;
ICR1H=0x00;
ICR1L=0x00;
OCR1AH=0x00;
OCR1AL=0x00;
```

```
OCR1BH=0x00;
OCR1BL=0x00;
ASSR=0x00;
TCCR2=0x00;
TCNT2=0x00;
OCR2=0x00;
MCUCR=0x00;
TIMSK=0x00;
UCSRB=0x00;
ACSR=0x80;
SFIOR=0x00;
ADCSRA=0x00;
SPCR=0x00;
TWCR=0x00;
lcd_init(16);

lcd_gotoxy(0,0);
lcd_puts("Muhlisin");
lcd_gotoxy(0,1);
lcd_puts("20143010035");
delay_ms(1500);
lcd_clear();

Get_Maopi();



while (1)
    {
```

```
PORTC.0=1;
PORTC.1=0;
 Weight1 = Get_Weight()/2.985;
 lcd_gotoxy(0,0);
 sprintf(text,"%d g      ",Weight1);
 lcd_puts(text);

delay_ms(250);



PORTC.0=0;
PORTC.1=1;
Weight2 = Get_Weight()/2.775;
 lcd_gotoxy(0,1);
 sprintf(text,"%d g      ",Weight2);
 lcd_puts(text);




lcd_gotoxy(8,1);
 sprintf(text,"%d g      ",saved);
 lcd_puts(text);


 if(Weight1==saved  && saved>0  )
 {
 PORTD.0=1;
 delay_ms(100);

 PORTD.0=0;
```

```
delay_ms(100);

}


  if( Weight2== saved && saved>0  )
{
PORTD.0=1;
delay_ms(100);

PORTD.0=0;
delay_ms(100);

}

if( Weight1==0 &&  Weight2==0)
{
PORTD.0=0;
}


if( Weight1==Weight2 && Weight1>0 && Weight2>0)
   {
PORTD.0=1;
delay_ms(100);

PORTD.0=0;
delay_ms(100);

}
```

```
    if(Weight1>saved || Weight2>saved || Weight1<saved || Weight2<saved || saved<1 ||
Weight1>Weight2 || Weight1<Weight2)
    {
    PORTD.0=0;
    }

    if(!PINB.3){save();}

   }
}
```