```c
#include<at89x52.h>

#include<intrins.h>

#include"lcd.h"

#define LED_Pin P0_0

sbit cancel_buttton=P0^1;

sbit bill_button=P0^2;

void transmit_byte(unsigned char byte);

unsigned char x,i;

int ty;

unsigned char rx[20] ;

int String_Compare(unsigned char [], unsigned char [], unsigned char );

unsigned char wheats[] = "4C003B599CB2";

unsigned char biscuit[] = "4C003C4791A6";

unsigned char rise[] = "4C003B5AB19C";

int r1, r2, r3, totalamt;

bit wheats_en, biscuit_en, rise_en,cancelF;

main(){

        TMOD=0X20;

        TH1=0XFD;

        SCON=0X50;

        TR1=1;

        IE=0x90;

        InitLCD();

        WriteStringToLCD(0x80,"  SMART" );

        delay(2,30);

        WriteCommandToLCD(1);

        WriteStringToLCD(0xc0,"SHOPINGCART" );
  // transmit_byte('A');

        while(1){

                if(cancel_buttton==0){

                        delay(2,3000);
```

```
                    WriteCommandToLCD(1);
        WriteStringToLCD(0x80,"ToCancel");
        WriteStringToLCD(0xc0,"Scan product ");
                    while(cancel_buttton==0);
                    delay(2,3000);
                    WriteCommandToLCD(1);
                    cancelF=1;        }
            if(bill_button==0){
                    delay(2,3000);
                    WriteCommandToLCD(1);
                    totalamt = (wheats_en * 126) + (biscuit_en * 50) + (rise_en * 150);
                    WriteStringToLCD(0x80,"Total Amount  ");
            WriteStringToLCD(0xc0,"Rs.");
            WriteIntToLCD(0xc3,totalamt,4);
                    delay(3,3000);
                    WriteCommandToLCD(1);}
            WriteStringToLCD(0x80,"Shoping cart" );
            if(x>1){
                    ty++;
                    if(ty>5){
                            LED_Pin=1;
                            ty=0;
        WriteCommandToLCD(1);        //WriteByteToLCD(0x80,rx[0]);
//WriteByteToLCD(0x82,wheats[0]);
        r1 = String_Compare(wheats, rx, 8);
        r2 = String_Compare(biscuit, rx, 8);
        r3=String_Compare(rise,rx,8);    //WriteIntToLCD(0xc0,r1,4);
        //WriteIntToLCD(0xc5,r2,4);
        //WriteIntToLCD(0xcb,r3,4);
        //delay(1,3000);
        //WriteCommandToLCD(1);
```

```c
                                     if (r1 == 0){        WriteStringToLCD(0x80,"Wheats:  2 kg ");
WriteStringToLCD(0xc0,"Rs. 126");
                              if(cancelF) {
                                wheats_en = 0; }
                              else if(cancelF==0)  {
                                wheats_en = 1;}
                                   cancelF=0; }
                            else if (r2 == 0){
WriteStringToLCD(0x80,"biscuit 1 pkt");
WriteStringToLCD(0xc0,"Rs. 50");
                              if(cancelF){
                                biscuit_en = 0;}
                              else if(cancelF==0) {
                                biscuit_en = 1; }
                                   cancelF=0;  }
                            else if (r3 == 0) {                        WriteStringToLCD(0x80,"Rice:2kg");
"WriteStringToLCD(0xc0,"Rs. 150");
                              if(cancelF){
                                rise_en = 0;}
                              else if(cancelF==0) {
                                rise_en = 1; }
                                   cancelF=0;  }
                              for(i=0;i<=12;i++){
                                     rx[i]=0;}
                              LED_Pin=0;
                              ty=0;
                              x=0;
                              delay(3,3000);
WriteCommandToLCD(1);}}}}
void transmit_byte(unsigned char byte){
        SBUF=byte;
        while(!TI);
```

```c
        TI=0;}
void serial0(void) interrupt 4{
        if (RI == 1){
                RI = 0;
                rx[x] = SBUF;
                x++;}
        else TI = 0; }
int String_Compare(unsigned char src[], unsigned char dest[], unsigned char v){
 int i;
 for (i = 0; i <= v && src[i] == dest[i]; i++);
 return src[i] - dest[i];}


//4102005150505Z
//4100004150205Z
//4101002150405Z
```