

```
/* Name      : One touch alarm Women safety system.c
```

```
#include <at89x52.h>
#include <8051_LCD_8_BIT.H>
#include <8051_Serial.H>
#include <8051_GSM.H>
#include <8051_GPS.H>
```

```
sbit Buzzer=P0^3; //Define Pin Connection ON Port.
sbit Key=P3^4;
```

```
sbit red_led=P0^0;
sbit green_led=P0^1;
unsigned int sm=1,sms=1;
```

```
void send_message();
void send_message_1();
```

```
void main()
```

```
{
```

```
    Buzzer=0;
    red_led=0;
    green_led=0;
    init_Serial();
    lcd_init();
    delay(200);
    Buzzer=0;
    red_led=1;
    green_led=1;
    Key=1;
    lcd_string("One Touch Alarm");// Display project Name.
    lcd_cmd(0xC0);
    lcd_string("Women Safty Sytm");
    delay(8000);
```

```
    lcd_cmd(0x01);
    lcd_string("GPS Connecting...");
    IE=0x90;
    EA=1;
```

```
    while(1)
```

```
    {
```

```
        red_led=1;
        green_led=0;
```

```
        if(check==69) // To Check Data and Compare
```

```
With Vailid Format.
```

```
        compare();
```

```
        if(Key==0) //If Women trouble Then Press Switch.
```

```
        {
```

```
            EA=0;
            lcd_cmd(0x01);
            delay(500);
            Buzzer=1;
            red_led=0;
            green_led=1;
            lcd_string("SYSTEM ACTIVE");
```

```

        send_message(); // System Active And
        Send Sms To Predefine Number.
        delay(5000);
        send_message_1();
        Buzzer=0;
        sm=1;

        lcd_cmd(0xc0);
        lcd_string("SMS Sent.....");
        while(sm==1)
        {

red_led=0;Buzzer=1;delay(400);red_led=1;Buzzer=0;delay(400);
        if(Key==0)

{sm=0;lcd_cmd(0x01);delay(3000);IE=0x90;EA=1;}
        }
    }

void send_message()
{
    unsigned int c2=comma_position[2]; //Position of second comma
    unsigned int c4=comma_position[4];

    send_string("AT+CMGF=1\r\n");

    delay(2000);
    send_string("AT&W\r\n");

    delay(2000);

        lcd_cmd(0xc0);
        lcd_string("SMS Sending...");

    number_Enter();
    send_string("I am in trouble help me...\r\n");
    delay(1000);
    send_string("My Location...\r\n");
    // http://www.geoplaner.com/?z=12;p=19.20518,72.83595;
    send_string("LAT "); //Showing Latitude
    delay(900);
    Tx_char(info[c2+1]);
    delay(900);
    Tx_char(info[c2+2]);
    delay(900);
    Tx_char('.'); // TO display degree symbol

    delay(100);
    for(i=3;i<=9;i++)
    {
        Tx_char(info[c2+i]);
        delay(100);
    }
    Tx_char(0x27);
    delay(100);
    Tx_char(info[c2+11]);
    delay(500);
    send_string(" LON "); //Showing Longitude
    delay(100);
    Tx_char(info[c4+2]);

```

```

        delay(100);
        Tx_char(info[c4+3]);
        delay(100);
        Tx_char('.'); // TO display degree symbol
        delay(100);
        for(i=4;i<=10;i++)
        {
            Tx_char(info[c4+i]);
            delay(100);
        }
        Tx_char(0x27);
        delay(100);
        Tx_char(info[c4+12]);
        delay(500);
        send_string("http://www.geoplaner.com data in
form[dd.mm.mmm]\r\n\r\n");
        delay(2000);
        Tx_char(0x1a);
        delay(500);
    }

void send_message_1()
{
    unsigned int c2=comma_position[2]; //Position of second comma
    unsigned int c4=comma_position[4];

    send_string("AT+CMGF=1\r\n");

    delay(2000);
    send_string("AT&W\r\n");

    delay(2000);

    //                                lcd_cmd(0xc0);
    //                                lcd_string("SMS Sending...");

    number_Enter_1();
    send_string("I am in trouble help me...\r\n");
    delay(1000);
    send_string("My Location...\r\n");
    // http://www.geoplaner.com/?z=12;p=19.20518,72.83595;
    send_string("LAT "); //Showing Latitude
    delay(900);
    Tx_char(info[c2+1]);
    delay(900);
    Tx_char(info[c2+2]);
    delay(900);
    Tx_char('.'); // TO display degree symbol

    delay(100);
    for(i=3;i<=9;i++)
    {
        Tx_char(info[c2+i]);
        delay(100);
    }
    Tx_char(0x27);
    delay(100);
    Tx_char(info[c2+11]);
    delay(500);
    send_string(" LON "); //Showing Longitude
    delay(100);
    Tx_char(info[c4+2]);

```

```
delay(100);
Tx_char(info[c4+3]);
delay(100);
Tx_char('.');          // TO display degree symbol
delay(100);
for(i=4;i<=10;i++)
{
    Tx_char(info[c4+i]);
    delay(100);
}
Tx_char(0x27);
delay(100);
Tx_char(info[c4+12]);
delay(500);
send_string("http://www.geoplaner.com data in
            form[dd.mm.mmm]\r\n\r\n");

delay(2000);
Tx_char(0x1a);
delay(500);
}
```