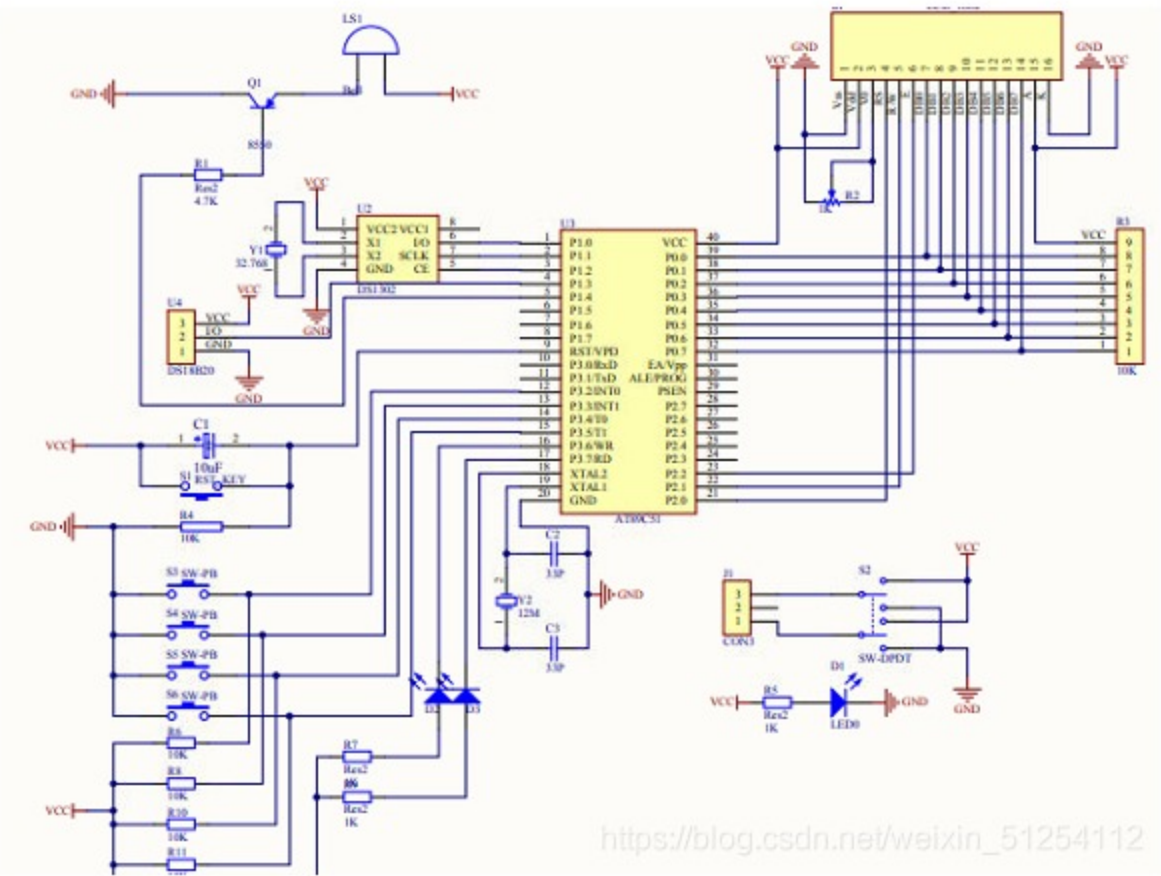
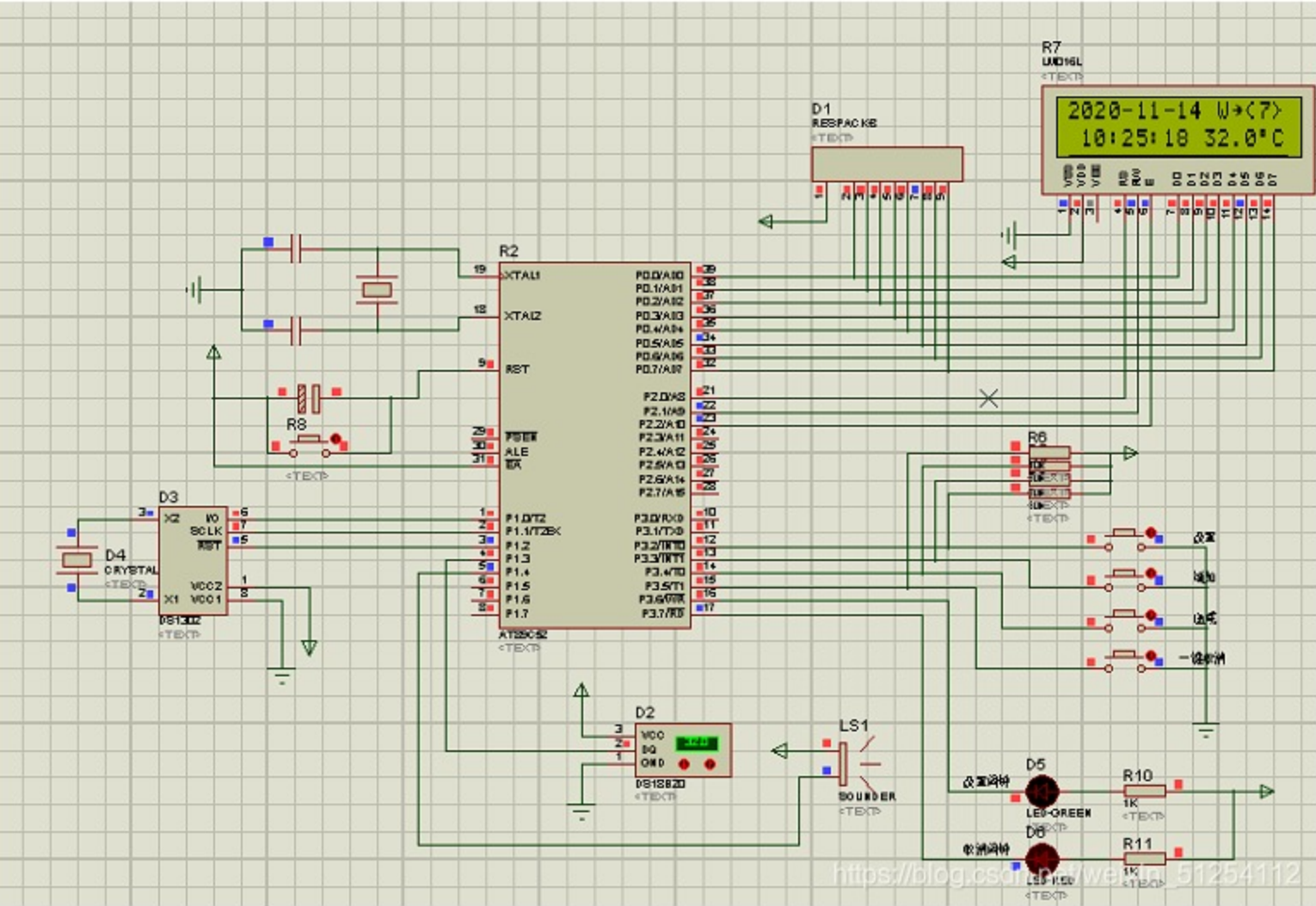


该系统实现了对实时时钟DS1302的时钟采集，并显示在LCD1602液晶屏上，并采集显示了温度。可通过按键对闹钟进行设置，当闹钟被触发时蜂鸣器鸣叫。



```
1  /* 写命令函数 */
2  void LCD_write_command(unsigned char dat)
3  {
4      delay_n10us(10);
5      LCD_RS=0;
6      LCD_RW=0;
7      LCD_E=1;
8      LCD_DB=dat;
9      delay_n10us(10);
10     LCD_E=0;
11     delay_n10us(10);
12 }
13 /* 写数据函数 */
14 void LCD_write_data(unsigned char dat)
15 {
16     delay_n10us(10);
17     LCD_RS=1;
18     LCD_RW=0;
19     LCD_E=1;
20     LCD_DB=dat;
21     delay_n10us(10);
22     LCD_E=0;
23     delay_n10us(10);
24 }
25 /* 写字符函数 X:0~15 Y:1,2 */
26 void LCD_disp_char(unsigned char x,unsigned char y,unsigned char dat)
27 {
28     unsigned char address=0;
29     if(y==1)
30         address=0x80+x;
31     else
32         address=0xc0+x;
33     LCD_write_command(address);
34     LCD_write_data(dat);
35 }
36 /* 写一串字符 X:0~15 Y:1,2 */
37 void LCD_disp_str(unsigned char x,unsigned char y,unsigned char *str)
38 {
39     unsigned char address=0;
40     if(y==1)
41         address=0x80+x;
42     else
43         address=0xc0+x;
44     LCD_write_command(address);
45     while(*str!='\0')
46     {
47         LCD_write_data(*str);
48         str++;
49     }
50 }
51 /* 液晶初始化 */
52 void LCD_init(void)
53 {
54     delay_n10us(10);
55     LCD_write_command(0x38);
```