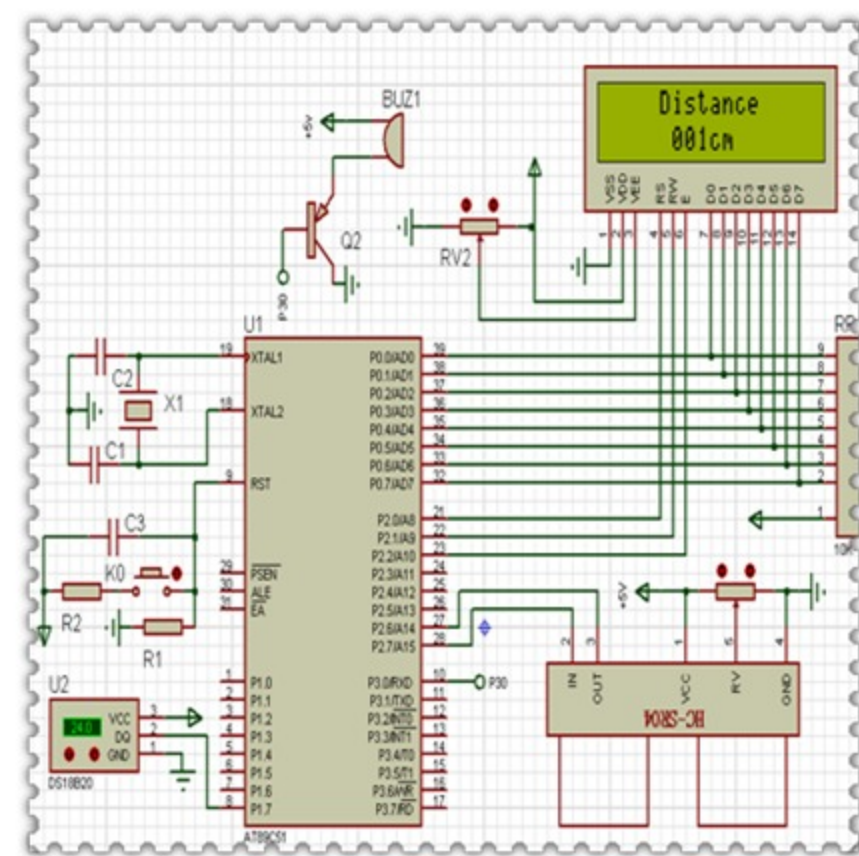
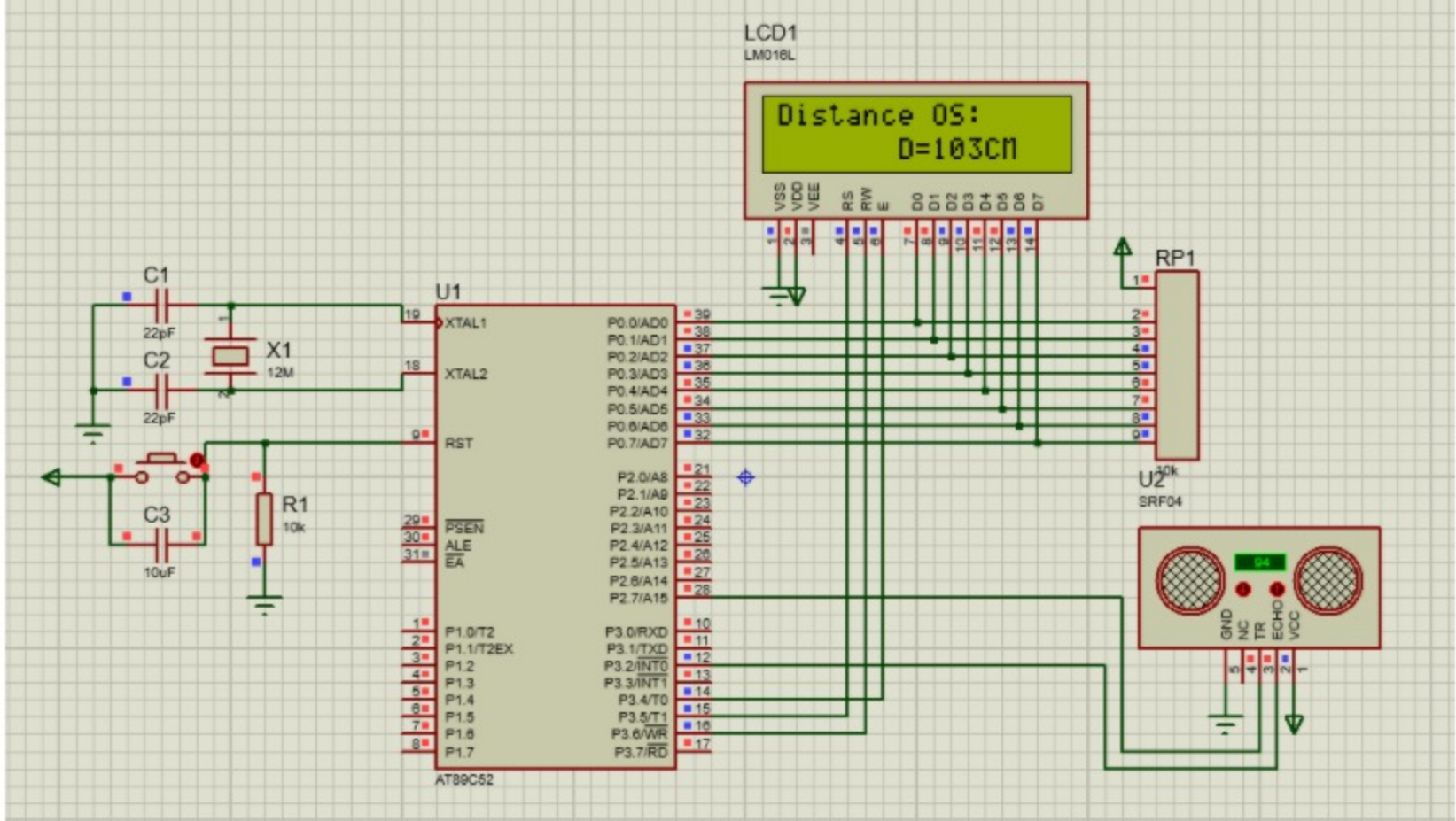




```

1  #include <reg51.h>           //预处理命令，定义SFR的头
2  #include <math.h>
3  #include <intrins.h>         //内部函数库文件
4  #define uchar unsigned char  //定义缩写字符uchar
5  #define uint unsigned int    //定义缩写字符uint
6  #define lcd_data P0          //定义LCD1602接口 P0
7  sbit DQ =P1^7;               //将18B20DQ位定义为P1.7引脚
8  sbit lcd_RS=P2^0;            //将18B20RS位定义为P2.0引脚
9  sbit lcd_RW=P2^1;            //将18B20RW位定义为P2.1引脚
10 sbit lcd_EN=P2^2;            //将18B20EN位定义为P2.2引脚
11 sbit BEEP=P3^0;              //测量超出指定范围，报警
12 sbit Trig=P2^5;              //HC-SR04触发信号输入
13 sbit Echo=P2^6;              //HC-SR04回响信号输出
14 uint Distance;               //测量的距离值
15 uint SPEEDSOUND;             //声速
16 uint t[2];                   //将距离转换成十进制数时，中间变量
17 uchar Buffer1[12]={0x20,0x20,0x20,0x20,0x63,0x6d,'\0'}; //距离显示cm
18 uchar tab[16]={0x20,0x20,0x20,0x20,0x44,0x69,0x73,0x74,0x61,0x6e,0x63,0x65,'\0'}; //显示"Distance"
19 /*****lcd显示子程序*****/
20 void delay20us(void)         //20us延时
21 {
22     unsigned char a;
23     for(a=100;a>0;a--);
24 }
25

```