

计算机控制及接口技术作业

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```
int sinputPin=10;/*Change according to the hardware configure*/
int soutputPin=8;/*Change according to the hardware configure*/
Int buzzPin=7;/*Change according to the hardware configure*/
int wait;
```

```
void setup()
{
//set the IO working mode pinMode(sinputPin,INPUT);
PinMode(soutputPin,OUTPUT);
PinMode(buzzPin,OUTPUT);
//Setup the serial port Serial.begin(9600);
}
```

```
void loop()
{
//the next 5 lines are used to generate a pulse
//to trig the ultrasonic ranging unit
digitalWrite(soutputPin,LOW);
delay(100);
digitalWrite(soutputPin,HIGHT);
delayMicroseconds(15);
digitalWrite(soutputPin,LOW);
//get response from the ranging unit
unsigned int distance=pulseIn(sinputPin,HIGHT);
Distance=distance/58;//in cm
if(distance<20)
{
tone(buzzPin,2000,100);
wait=200;
}
else if(distance>100)
{
tone(buzzPin,800,100);
wait=2000;
}
else
{
tone(buzzPin,1000,100);
wait=1000;
```

```
}  
//display the results to the serial monitor  
Serial.print("[");  
Serial.print(millis());  
Serial.print("]");  
Serial.print("");  
Serial.print(distance);  
Serial.println("cm");  
delay(wait);  
}
```