

```
// C++ code
//
int a=2;int b=3;
void setup()
{
    Serial.begin(9600);
    pinMode(a,OUTPUT);
    pinMode(b,INPUT);
    pinMode(12,OUTPUT);
}
void loop()
{
    //ultrasonic sensor
    digitalWrite(a,LOW);
    digitalWrite(a,HIGH);
    delayMicroseconds(10);
    digitalWrite(a,LOW);
    float dur=pulseIn(b,HIGH);
    float dis=(dur*0.0343)/2;
    Serial.print("Distance is: ");
    Serial.println(dis);
    //LED ON
    if(dis>=100)
    {
        digitalWrite(8,HIGH);
    }
    else
    {
        digitalWrite(8,LOW);
    }
    //Buzzer For ultrasonic Sensor
```

```
if(dis>=100)
{
    digitalWrite(12,HIGH);
    delay(500);
}
else
{
    digitalWrite(12,LOW);
    delay(500);
}

//Temperate Sensor
double a= analogRead(A4);
double t=((a/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
Serial.println(a);

//LED ON
if(t>=100)
{
    digitalWrite(7,HIGH);
}
else
{
    digitalWrite(7,LOW);
}

//Buzzer for Temperature Sensor
if(t>=100)
{
    digitalWrite(12,HIGH);
    delay(500);
}
else{
```

```
digitalWrite(12,LOW);  
delay(500);  
}  
}
```