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// C++ code

//
Int t=2;
Int e=3;
Void setup()
{
    Serial.begin(9600);
    pinMode(t,OUTPUT);
    pinMode(e,INPUT);
    pinMode(12,OUTPUT);
}
Void loop()
{
    //ultrasonic sensor
    digitalWrite(t,LOW);
    digitalWrite(t,HIGH);
    delayMicroseconds(10);
    digitalWrite(t,LOW);
    float dur=pulseIn(e,HIGH);
    float dis=(dur*0.0343)/2;
    Serial.print("Distance is: ");
    Serial.println(dis);

    //LED ON
    If(dis>=100)
    {
        digitalWrite(8,HIGH);
        digitalWrite(7,HIGH);
    }
    //Buzzer For ultrasonic Sensor

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    If(dis>=100)
    {
        For(int i=0; i<=60000; i=i+10)
        {
            Tone(12,i);
            Delay(6000);
            noTone(12);
            delay(6000);
        }
    }

//Temperate Sensor
    Double a= analogRead(A0);
    Double t=((a/1024)*5)-0.5)*100;
    Serial.print("Temp Value: ");
    Serial.println(t);
    Delay(6000);

/LED ON
    If(t>=100)
    {
        digitalWrite(8,HIGH);
        digitalWrite(7,HIGH);
    }

//Buzzer for Temperature Sensor
    If(t>=100)
    {
        For(int i=0; i<=60000; i=i+10)
        {
            Tone(12,i);
            Delay(6000);

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noTone(12);  
delay(6000);  
}  
}  
//LED OFF  
if(t<100)  
{  
    digitalWrite(8,LOW);  
    digitalWrite(7,LOW);  
}  
}
```