```
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
if(dis>=100)
{
for(int i=0; i<=30000; i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}
```

```
double a= analogRead(A0);
double t=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
Serial.println(t);
delay(1000);
//LED ON
if(t>=100)
{
 digitalWrite(8,HIGH);
 digitalWrite(7,HIGH);
}
//Buzzer for Temperature Sensor
if(t>=100)
{
for(int i=0; i<=30000; i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
```

```
}

//LED OFF

if(t<100)

{
    digitalWrite(8,LOW);
    digitalWrite(7,LOW);
}</pre>
```

}

