```
int
i=4;
       int e=5;
       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(9,HIGH);
             digitalWrite(10,HIGH);
```

```
}
//Buzzer for ultrasonic sensor
if(dis>=100)
{
for(int i=0;i<=30000;i=i+10)</pre>
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}
  //Temperature sensor
  double a=ananlogRead(A0);
  double t=[(((a/1024)*5)-0.5)*100);
  Serial.print("Temperature value: ");
  Serial.println(t);
  delay(1000);
  //LED on
  if(t>=100)
  {
    digitalWrite(9,HIGH);
```

```
digitalWrite(10,HIH);
}
//Buzzer for Temperature sensor
if(t>=100)
{
tone(12,i);
delay(2000);
noTone(12);
delay(2000);
}
}
//LED off
if(t<100)
{
digitalWrite(8,LOW);
digitalWrite(7,LOW);
}
}
```