

```

// C++ code
//
int trig =7;
int echo =4;
int piezo=3;
int temp = 0;
void setup()
{
    pinMode(trig,OUTPUT);
    pinMode(echo,INPUT);
    pinMode(8,OUTPUT);
    pinMode(10,OUTPUT);
    pinMode(11,OUTPUT);
    pinMode(9,OUTPUT);
    Serial.begin(9600);
}

void loop()
{
    digitalWrite(trig,LOW);
    digitalWrite(trig,HIGH);
    delayMicroseconds(10);
    digitalWrite(trig,LOW);
    float dur =pulseIn(echo,HIGH);
    float dist = (dur*0.0343/2);
    Serial.print("distance");
    Serial.println('dist');
    if(dist >=100)
    {

```

```
digitalWrite(9,HIGH);

}

else

{

digitalWrite(9,LOW);

}


{

temp = map(((analogRead(A0) - 20) * 3.04), 0, 1023, -40, 125);
Serial.println(temp);
if (temp < 25)
{
digitalWrite(11,HIGH);
digitalWrite(10,LOW);
digitalWrite(8,LOW);
}
if (temp > 25 && temp < 50)
{
digitalWrite(11,LOW);
digitalWrite(10,HIGH);
digitalWrite(8,LOW);
}
if (temp > 50 && temp < 125)
{
digitalWrite(11,LOW);
digitalWrite(10,LOW);
digitalWrite(8,HIGH);
}
```

```
}
```

```
delay(20);
```

```
}
```

```
}
```