|  |
| --- |
| //C++code |
|  | // |
|  | int trig =4; |
|  | int echo =6; |
|  | int piezo=9; |
|  | 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(10); |
|  | } |
|  | } |
|  |  |