#define echopin 8 // echo pin

#define trigpin 9 // Trigger pin

int maximumRange = 30;

long duration, distance;

void setup()

{

 Serial.begin (9600);

 pinMode (trigpin,OUTPUT);

 pinMode (echopin,INPUT );

 pinMode (2,OUTPUT);

 pinMode (3,OUTPUT);

 pinMode (4,OUTPUT);

 pinMode (5,OUTPUT);

 pinMode (6,OUTPUT);

 pinMode (7,OUTPUT);

 pinMode (8,OUTPUT);

 pinMode (9,OUTPUT);

}

void loop ()

{

 {

 digitalWrite(trigpin,LOW);

 delayMicroseconds(2);

 digitalWrite(trigpin,HIGH);

 delayMicroseconds(10);

 duration=pulseIn (echopin,HIGH);

 distance= duration/58.2;

 delay (50);

 Serial.println(distance);

 }

 if (distance >= 30)

 {

 digitalWrite(2,HIGH);

 digitalWrite(3,LOW);

 digitalWrite(4,HIGH);

 digitalWrite(5,LOW);

 delay (200);

 }

 else if (distance >=15 && distance <= 25)

 {

 digitalWrite (2,HIGH);

 digitalWrite (3,LOW);

 digitalWrite (4,LOW);

 digitalWrite (5,LOW);

 delay (1000);

 }

 else if (distance < 15)

 {

 digitalWrite (2,LOW);

 digitalWrite (3,HIGH);

 digitalWrite (4,LOW);

 digitalWrite (5,HIGH);

 delay (1000);

 digitalWrite (2,LOW);

 digitalWrite (3,LOW);

 digitalWrite (4,HIGH);

 digitalWrite (5,LOW);

 delay (1000);

 }

 if (distance >= 30)

 {

 digitalWrite(6,HIGH);

 digitalWrite(7,LOW);

 digitalWrite(8,HIGH);

 digitalWrite(9,LOW);

 delay (200);

 }

 else if (distance >=15 && distance <= 25)

 {

 digitalWrite(6,HIGH);

 digitalWrite(7,LOW);

 digitalWrite(8,LOW);

 digitalWrite(9,LOW);

 delay (1000);

 }

 else if (distance < 15)

 {

 digitalWrite(6,LOW);

 digitalWrite(7,HIGH);

 digitalWrite(8,LOW);

 digitalWrite(9,HIGH);

 delay (1000);

 digitalWrite(6,LOW);

 digitalWrite(7,LOW);

 digitalWrite(8,HIGH);

 digitalWrite(9,LOW);

 delay (1000);

 }

}