#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);

}

}