int trigPin = 9;

int echoPin = 10;

int led = 12;

int led1 = 13;

int motor = 7;

int motorled = 8;

int ir = 5;

void setup()

{

pinMode(motor,OUTPUT);

pinMode(motorled,OUTPUT);

pinMode(ir,INPUT);

pinMode(led, OUTPUT);

pinMode(led1, OUTPUT);

pinMode(trigPin, OUTPUT);

pinMode(echoPin, INPUT);

Serial.begin(9600);

}

void loop()

{

long duration, distance;

digitalWrite(trigPin,HIGH);

delayMicroseconds(1000);

digitalWrite(trigPin, LOW);

duration=pulseIn(echoPin, HIGH);

distance =(duration/2)/29.1;

Serial.print(distance);

delay(10);

if((distance<=10))

{

digitalWrite(led, LOW);

}

else if(distance>10)

{

digitalWrite(led, HIGH);

}

if((distance<=4))

{

digitalWrite(led1, HIGH);

}

else if(distance>4)

{

digitalWrite(led1, LOW);

}

if (digitalRead(5)==HIGH)

{

digitalWrite(7,LOW);

digitalWrite(8,HIGH);

delay(400);

digitalWrite(7,HIGH);

digitalWrite(8,LOW);

delay(3000);

}

else

{

digitalWrite(7,HIGH);

digitalWrite(8,LOW);

delay(10);

}

}