const int trigPin =11;

const int echoPin=10;

const int in1=3;

const int in2=4;

const int in3=6;

const int in4=7;

void setup() {

pinMode(trigPin,OUTPUT);

pinMode(echoPin,INPUT);

pinMode(in1,OUTPUT);

pinMode(in2,OUTPUT);

pinMode(in3,OUTPUT);

pinMode(in4,OUTPUT);

}

long duration,distance;

void loop() {

digitalWrite(trigPin,LOW);

delayMicroseconds(2);

digitalWrite(trigPin,HIGH);

delayMicroseconds(10);

digitalWrite(trigPin,LOW);

duration=pulseIn(echoPin,HIGH);

distance=duration/58.2;

if(distance>15)

{

digitalWrite(in1,HIGH);

digitalWrite(in2,LOW);

digitalWrite(in3,HIGH);

digitalWrite(in4,LOW);

}

else

{

digitalWrite(in1,LOW);

digitalWrite(in2,LOW);

digitalWrite(in3,LOW);

digitalWrite(in4,LOW);

delay(1000);

digitalWrite(in1,LOW);

digitalWrite(in2,HIGH);

digitalWrite(in3,LOW);

digitalWrite(in4,HIGH);

delay(1000);

digitalWrite(in1,LOW);

digitalWrite(in2,LOW);

digitalWrite(in3,LOW);

digitalWrite(in4,LOW);

delay(1000);

digitalWrite(in1,HIGH);

digitalWrite(in2,LOW);

digitalWrite(in3,LOW);

digitalWrite(in4,LOW);

delay(1000);

digitalWrite(in1,HIGH);

digitalWrite(in2,LOW);

digitalWrite(in3,HIGH);

digitalWrite(in4,LOW );

}

}