#define trigPin 3

#define echoPin 10

int m1b = 11;

int m1f =5;

int m2f = 6;

int m2b = 9;

void setup(){

pinMode(m1f, OUTPUT);

pinMode(m1b, OUTPUT);

pinMode(m2f, OUTPUT);

pinMode(m2b, OUTPUT);

pinMode(trigPin, OUTPUT);

pinMode(echoPin, INPUT);

}

void loop(){

int duration, distance;

digitalWrite(trigPin, HIGH);

delayMicroseconds(1000);

digitalWrite(trigPin, LOW);

duration = pulseIn(echoPin, HIGH);

distance = (duration/2) / 29.1;

if (distance >= 25){

digitalWrite(m1f, HIGH);

digitalWrite(m1b, LOW);

digitalWrite(m2f, HIGH);

digitalWrite(m2b, LOW);

delay(100);

}

else {

digitalWrite(m1f, HIGH);

digitalWrite(m1b, LOW);

digitalWrite(m2b, HIGH);

digitalWrite(m2f, LOW);

delay(800);

}

}