const int trigPin=9;

const int echoPin=10;

const int led=7;

long duration;

int distance;

void setup()

{ pinMode(led, OUTPUT);

pinMode(trigPin, OUTPUT);

pinMode(echoPin, INPUT);

Serial.begin(9600);

}

void loop()

{ digitalWrite(trigPin, HIGH);

delayMicroseconds(2);

digitalWrite(trigPin, LOW);

delayMicroseconds(10);

duration=pulseIn(echoPin, HIGH);

distance=duration\*0.034/2;

Serial.print(distance);

Serial.println("CH");

if(distance<=10)

{

digitalWrite(led, HIGH);

}

else if(distance>10)

{ digitalWrite(led, LOW);

}

}