#define echo 5

#define trig 6

#define led 13

void setup()

{

pinMode(trig, OUTPUT);

pinMode(echo,INPUT);

pinMode(1,OUTPUT);

pinMode(2,OUTPUT);

pinMode(3,OUTPUT);

pinMode(4,OUTPUT);

Serial.begin(9600);

}

void loop()

{

long time,dist;

digitalWrite(trig,LOW);

delayMicroseconds(2);

digitalWrite(trig,HIGH);

delayMicroseconds(10);

digitalWrite(trig,LOW);

time = pulseIn(echo,HIGH);

dist = time/2/29.1;

Serial.println(dist);

delay(1000);

if (dist<100)

{

digitalWrite(1,LOW);

digitalWrite(2,LOW);

digitalWrite(3,LOW);

digitalWrite(4,LOW);

}

else

{

digitalWrite(1,HIGH);

digitalWrite(2,LOW);

digitalWrite(3,LOW);

digitalWrite(4,HIGH);

}

}