const int trigPin = 7;

const int echoPin = 6;

int v[6]={8,9,10,11,12,13};

const int lu=A0,wat=A4;

void setup() {

// put your setup code here, to run once:

for(int i=0;i<6;i++)

pinMode(v[i],OUTPUT);

voice\_off();

Serial.begin(9600);

}

/\*

\* v1=ab less then 100 //0

\* v2=ab less then 50 //1

\* v3=ab less then 25 //2

\* v4=lumins is low //3

\* v5=water spots are detct //4

\*/

void loop() {

// put your main code here, to run repeatedly:

int w=0,ns=0;

ns=analogRead(lu);

w=analogRead(wat);

//Serial.println("luminus:"+String(ns));

//Serial.println("water:"+String(w));

long h=ping\_1();

//Serial.println(h);

if(ns>1010){

Serial.println("light is off");

voice\_on\_off(3);

}

if(w<100){

Serial.println("water spots");

voice\_on\_off(4);

}

if(h<100&&h>50){

Serial.println("less 100");

voice\_on\_off(0);

}

else if(h<50&&h>25){

Serial.println("less 50");

voice\_on\_off(1);

}

else if(h<25)

{

Serial.println("less 25");

voice\_on\_off(2);

}

voice\_off();

delay(500);

}

long microsecondsToInches(long microseconds)

{

return microseconds / 74 / 2;

}

long microsecondsToCentimeters(long microseconds)

{

return microseconds / 29 / 2;

}

long ping\_1()

{

long duration, inches, cm;

pinMode(trigPin, OUTPUT);

digitalWrite(trigPin, LOW);

delayMicroseconds(2);

digitalWrite(trigPin, HIGH);

delayMicroseconds(10);

digitalWrite(trigPin, LOW);

pinMode(echoPin, INPUT);

duration = pulseIn(echoPin, HIGH);

inches = microsecondsToInches(duration);

cm = microsecondsToCentimeters(duration);

/\*Serial.print("1. ");

Serial.print(cm);

Serial.print("cm");

Serial.println();\*/

return cm;

}

void voice\_on\_off(int p)

{

digitalWrite(v[p],LOW);

delay(3000);

voice\_off();

}

void voice\_off()

{

for(int i=0;i<6;i++)

digitalWrite(v[i],HIGH);

}