float x,y; //TEMP

#define trigPin 12 //ULTRA

#define echoPin 10

int ledPin= 13;

int duration, distance; //ULTRA

#include<Servo.h> //servo

Servo my; //servo

char val; //bluetooth

void setup() {

Serial.begin(9600);

pinMode(2,INPUT); //IR GATE FIRST

pinMode(3,INPUT);

my.attach(11); //servo

pinMode(4, OUTPUT); //IR GATE FIRST

pinMode(7,OUTPUT); //TEM

pinMode(8,INPUT); //pir 1

pinMode(9,OUTPUT); //LED 1

// pinMode(10,INPUT); //pir 2

//pinMode(11,OUTPUT); //LED2

pinMode(trigPin, OUTPUT); //12 PIN ULTRA

pinMode(echoPin, INPUT); //10 PIN ULTRA

pinMode(ledPin, OUTPUT); //13 PIN ULTRA

pinMode(3,OUTPUT); //bluetooth

}

void loop() {

x=analogRead(0); //TEMP

y=((x/1024)\*5)\*100;

Serial.println(y);

delay(500);

if(y>44)

{

digitalWrite(7,1);

}

else

{

digitalWrite(7,0);

delay(500);

}

//TEMP

if(digitalRead(8)==HIGH) //pir

{

digitalWrite(9,HIGH);

}

else

{ digitalWrite(9,LOW);}

digitalWrite(trigPin, HIGH); //ULTRA

delayMicroseconds(10);

digitalWrite(trigPin, LOW);

duration = pulseIn(echoPin, HIGH);

distance = (duration/2) / 29.1;

if (distance >= 10 || distance <= 0)

{

// Serial.println("no object detected");

digitalWrite(ledPin,LOW);

}

else

{

Serial.println("object detected \n");

Serial.print("distance= ");

Serial.print(distance);

digitalWrite(ledPin,HIGH);

} //ULTRA

if(digitalRead(2)==HIGH) //gate first

{

my.write(0); //servo

}

else

{

my.write(90); //servo

}

analogRead(5); //ldr

float a = analogRead(5);

Serial.println(a);

if (a <=200) {

digitalWrite(4,1);

Serial.println("LDR is DARK, LED is ON");

}

else {

digitalWrite(4,0);

Serial.println("-----");

} //ldr

if (Serial.available()) //bluetooth

{

val = Serial.read();

Serial.println(val);

if(val == 'TV')

digitalWrite(3,HIGH);

else if(val == 'tv')

digitalWrite(3,LOW);

} //bluetooth

}

SCHEMATICS

BLUEPRINT FOR PROJECT

Fc7cd5chqbbdjyr e8jjwubenk

COMMENTS

Please log in or sign up to comment.

bricomario

bricomario

4 years ago

Hi Shubhamkumar97, it is a cool project. Thanks for sharing. But I see a AT89C51 and a ULN2003A in the shematic, not an Arduino board... I would appreciate more details if possible. Thanks.

1 thank

Shubhamkumar97

Shubhamkumar97

4 years ago

I will change it, it's from a another project

Thanks for comment!

Keep supporting.

mo7amad\_ma

mo7amad\_ma

4 years ago

Hi Shubhamkumar97, it is a really intelligent project. Thanks for sharing

but I didn't get the idea of how we can apply this project in real life

Shubhamkumar97

Shubhamkumar97

4 years ago

Thanks for complement first.

mo7amad\_ma, I know some part of the project is hard to apply on real life(ldr and pir).

But, rest of the part is easy to apply. And i think if we plan home accordingly we can plant these sensors also..

skatimba

skatimba

3 years ago

Hi. I would like to know where the bluetooth itself was used? Why is the bluetooth module needed in this automation project?

Akash22

Akash22

4 years ago

Can you plz send the circuit daigram for this project at my email. akash.gajbhiye18@vit.edu

1 thank

rajukumar6113

rajukumar6113

3 years ago

hi bro can we control the above project with wifi instead of bluetooth.

bro can you send me the above project circuit diagram and code to my mail id rajukumar6113@gmail.com

skatimba

skatimba

3 years ago

Hi. I would like to know where the bluetooth itself was used? Why is the bluetooth module needed in this automation project?

Shubhamkumar97

Shubhamkumar97

a year ago

Bluetooth module is used to control rest of the sensor through mobile device in case of no person in room.

skatimba

skatimba

3 years ago

Hi. Are you using the computer to control the LED'S or are they turning off and on automatically? Please reply

Shubhamkumar97

Shubhamkumar97

a year ago

No, Arduino it self running all of this.

TheCrazyCrush

TheCrazyCrush

3 years ago

This is start of something future

1 thank

kowsik

kowsik

3 years ago

Please Send Circuit Diagram

Shubhamkumar97

Shubhamkumar97

a year ago

It's a long time through, but you can make it yourself.

Gouthampatilhm

Gouthampatilhm

3 years ago

Hi bro Can you plz send me the circuit diagram of the above project to my email gouthupatil666@gmail.com

Tharun\_b

Tharun\_b

2 years ago

Can you plz send the circuit daigram for this project at my email.

bandaritharun4@gmail.com

Tharun\_b

Tharun\_b

2 years ago

can you send the circuit diagram for this project. to my mail id:

bandaritharun4@gmail.com

shalinipandurangan

shalinipandurangan

2 years ago

Could you please share me the circuit diagram.

shalrangan@gmail.com

yashijain

yashijain

2 years ago

Hii

Your project is awesome.

I wanted to know about the components, coding and connections of the hardware.

Pls reply as l wanted to make this project.

Because things in your video are slightly different then your content.

Amazing watching such great project.

Thanks.

Pls Reply as early as possible.

Shubhamkumar97

Shubhamkumar97

a year ago

YouTube video and code will correctly demonstrate the project, circuit diagram maybe little confusing.

It's a while making it so I don't remember about the connection, but components are explained in video.

yashijain

yashijain

2 years ago

Hii

Your project is awesome.

I wanted to know about the components, coding and connections of the hardware.

Pls reply as l wanted to make this project.

Because things in your video are slightly different then your content.

Amazing watching such great project.

Thanks.

Pls Reply as early as possible.

saswatamaity13

saswatamaity13

2 years ago

Can you give the circuit diagram of this Project ? It'll be very beneficial for me..

saswatasundarmaity07@gmail.com

marsmallow24

marsmallow24

2 years ago

Can i have a copy of the circuit diagram of this project?

mroseicaro.24@gmail.com

Thanks for sharing

cyclotech2020

cyclotech2020

2 years ago

Can i have a copy of the circuit diagram of this project?

aryateja.nsa2@gmail.com

ammarishtaieh

ammarishtaieh

2 years ago

Hello

Thank you for the share of this great project

Could you please send me the ckt diagram of this project on my email please??

Ammar.ishtaieh@gmail.com

aakansha2021

aakansha2021

a year ago

Can you please share the circuit diagram of this project on my mail

aakanshaghadge2728@gmail.com

purva25

purva25

a year ago

Hi,

Can you share the connection diagram, I am Not getting exact connections

Please provide the solution on the following mail bhosalepurva497@gmail.com as soon as possible

hridaykarmakar

hridaykarmakar

a year ago

This a great project can you email me the circuit diagram please..... hridaykarmakar786@gmail.com

sam245

sam245

a year ago

Can you please tell me which algorithm is being used in this project?

And also about the front and backend languages used here.

danishamjad

danishamjad

8 months ago

Can you plz send the circuit daigram for this project at my email

danishamjad142@gmail.com

sir kindly shere circuit diagram. because next week my exam.

agglakshay

agglakshay

7 months ago

Hi shubham

Can you please share the circuit diagram of this project.

agg.lakshay.2@gmail.com

chanchol

chanchol

4 months ago

Hi shubham dada,

Can you please share the circuit diagram of this project.

chanchol.kumar20@gmail.com

gagac

gagac

3 months ago

Exelent project...can u post a conection diagram...thanks

AUTHOR

Shubhamkumar97

Shubhamkumar97

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PUBLISHED ON

January 12, 2019

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