



Copy of Home automation system

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Code Start Simulation Send To

Components Basic

Search



Resistor



LED



Pushbutton



Potentiometer



Capacitor



Slideswitch



9V Battery

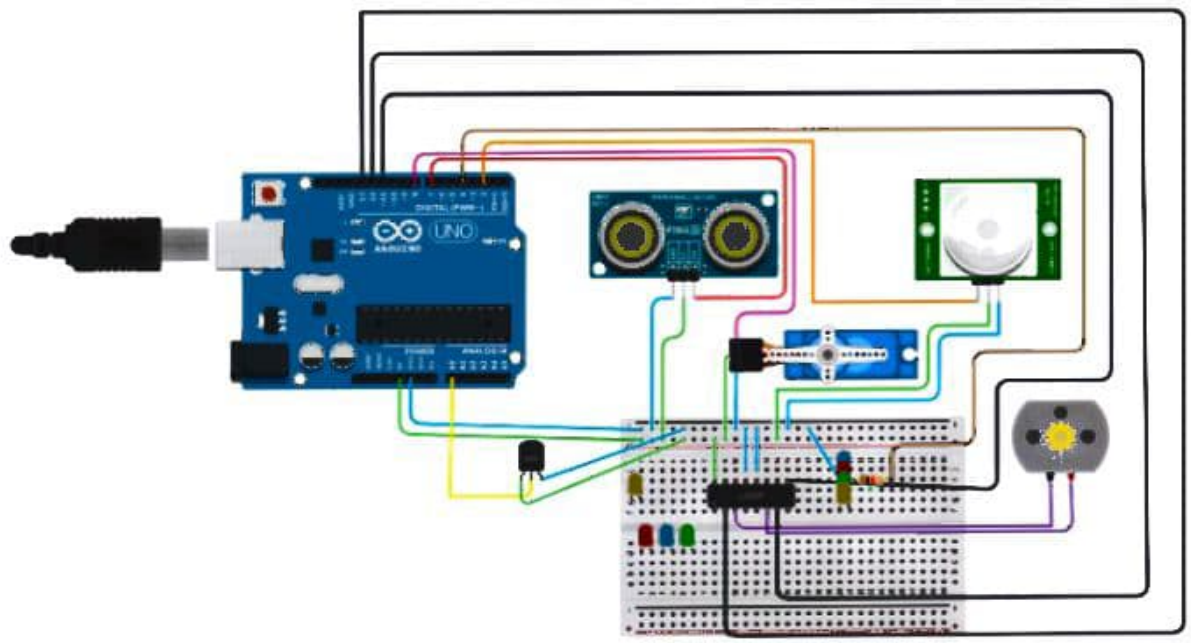


Coin Cell 3V Battery



1.5V Battery

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Home Automation....zip ^

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Code

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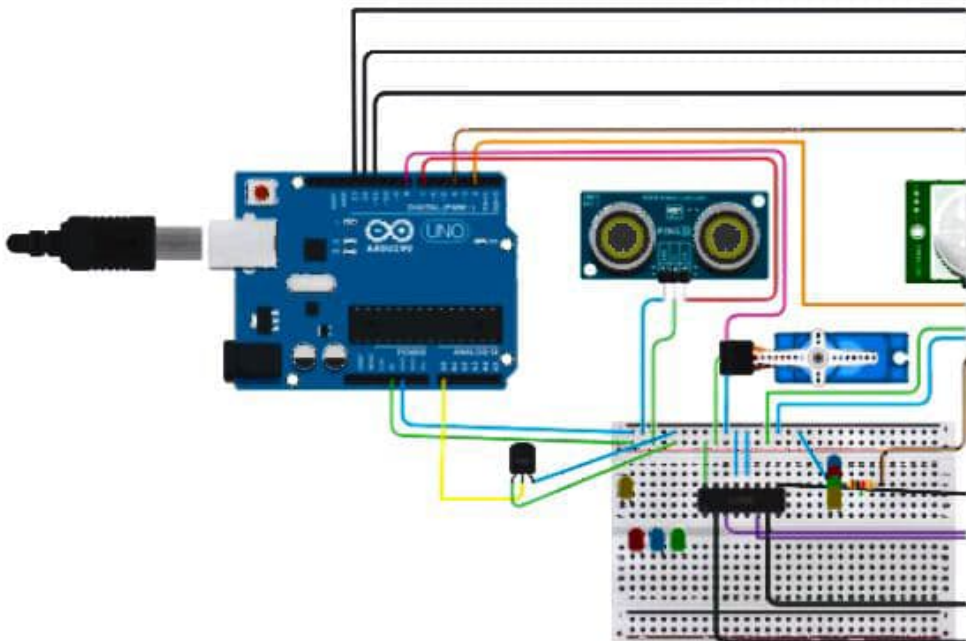
Text

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1 (Arduino Uno R3)



```
1 #include<Servo.h>
2 const int pingPin = 7;
3 int servoPin = 8;
4
5 Servo servol;
6
7 void setup() {
8   // initialize serial communication:
9   Serial.begin(9600);
10  servol.attach(servoPin);
11  pinMode(2, INPUT);
12  pinMode(4, OUTPUT);
13  pinMode(11, OUTPUT);
14  pinMode(12, OUTPUT);
15  pinMode(13, OUTPUT);
16  pinMode(A0, INPUT);
17  digitalWrite(2, LOW);
18  digitalWrite(11, HIGH);
19
20 }
21
22 void loop() {
23
24 }
```

Serial Monitor

Home Automation....zip

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28°C Rain

15:28

19-09-2022

ENG

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🔍 Code

▶ Start Simulation

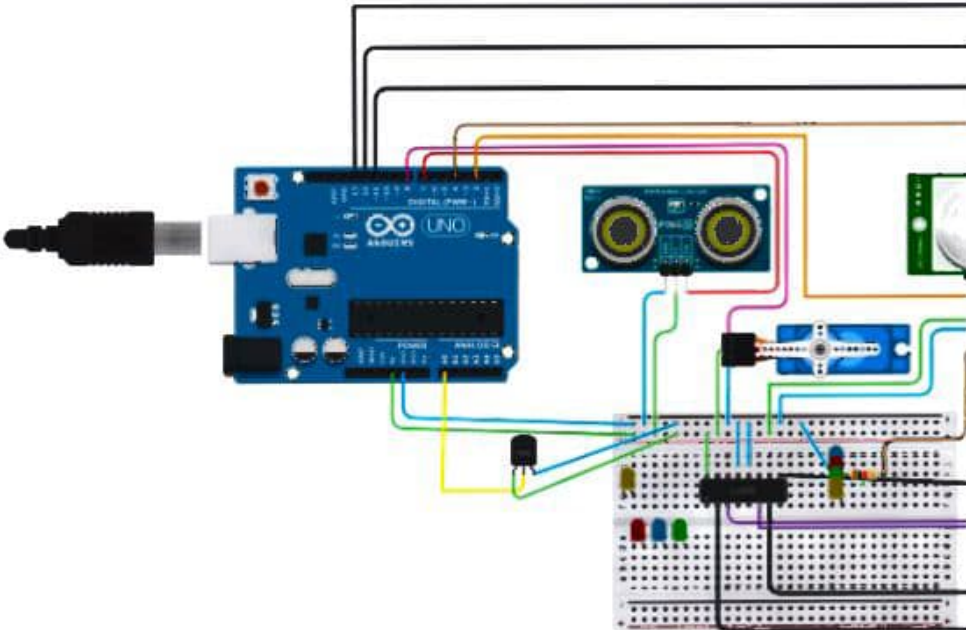
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1 (Arduino Uno R3)



Text

23

24 long duration, inches, cm;

25

26 pinMode(pingPin, OUTPUT);

27 digitalWrite(pingPin, LOW);

28 delayMicroseconds(2);

29 digitalWrite(pingPin, HIGH);

30 delayMicroseconds(5);

31 digitalWrite(pingPin, LOW);

32

33 // The same pin is used to read the signal from the PING))) a

34 // whose duration is the time (in microseconds) from the sendi

35 // to the reception of its echo off of an object.

36 pinMode(pingPin, INPUT);

37 duration = pulseIn(pingPin, HIGH);

38

39 // convert the time into a distance

40 inches = microsecondsToInches(duration);

41 cm = microsecondsToCentimeters(duration);

42

43 //Serial.print(inches);

44 //Serial.print("in, ");

45

46

Serial Monitor

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```

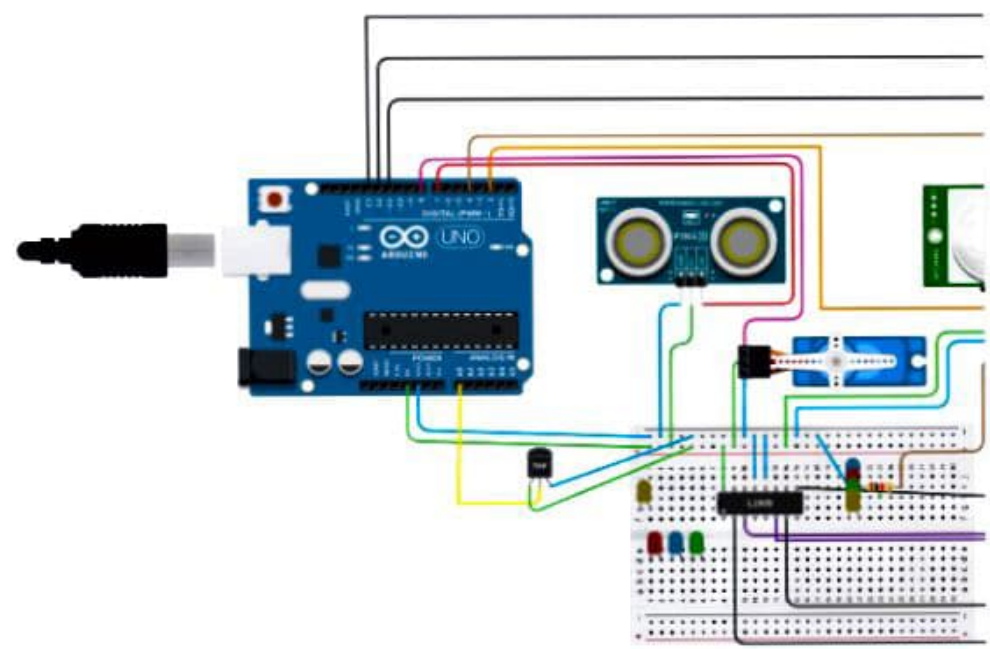
43 //Serial.print( in, );
44 //Serial.print(cm);
45 //Serial.print("cm");
46 //Serial.println();
47 //delay(100);
48
49
50 servol.write(0);
51
52 if(cm < 40)
53 {
54     servol.write(90);
55     delay(2000);
56 }
57 else
58 {
59     servol.write(0);
60 }
61
62 // PIR with LED starts
63 int pir = digitalRead(2);
64
65 if(pir == HIGH)
66 {
67

```

☐



# Copy of Home automation system



Text 1 (Arduino Uno R3)

```
66 {
67   digitalWrite(4,HIGH);
68   delay(1000);
69 }
70 else if(pir == LOW)
71 {
72   digitalWrite(4,LOW);
73 }
74
75 //temp with fan
76 float value=analogRead(A0);
77 float temperature=value*0.48;
78
79 Serial.println("temperature");
80 Serial.println(temperature);
81
82 if(temperature > 20)
83 {
84   digitalWrite(12,HIGH);
85   digitalWrite(13,LOW);
86 }
87 else
88 {
89 }
```

Serial Monitor

Home Automation....zip

Show all

```

79 Serial.println("temperature");
80 Serial.println(temperature);
81
82 if(temperature > 20)
83 {
84     digitalWrite(12,HIGH);
85     digitalWrite(13,LOW);
86 }
87 else
88 {
89     digitalWrite(12,LOW);
90     digitalWrite(13,LOW);
91 }
92 }
93
94 long microsecondsToInches(long microseconds) {
95     return microseconds / 74 / 2;
96 }
97
98 long microsecondsToCentimeters(long microseconds) {
99     return microseconds / 29 / 2;
100 }

```



Saved

 Code

Send To

Search

**Pushbutton**

Slidewitch

**1.5V Battery**

**X**