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tinkercad.com/things/dYHTZ0x7pQd-copy-of-home-automation-system/edit?tenant=circuits

Copy of Home automation system

Simulator time: 00:00:19.176

Code Stop Simulation Send To

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   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
37   Serial Monitor
  
```

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10:16 AM 16/09/2022

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Copy of Home automation system

Simulator time: 00:00:17.223

Code Stop Simulation Send To

1 (Arduino Uno R3)

```

60 }
61
62 // PIR with LED starts
63 int pir = digitalRead(2);
64
65 if (pir == HIGH)
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   digitalWrite(12,LOW);
90   digitalWrite(13,LOW);
91 }
92
93
94 long microsecondsToInches(long microseconds) {
95
  
```

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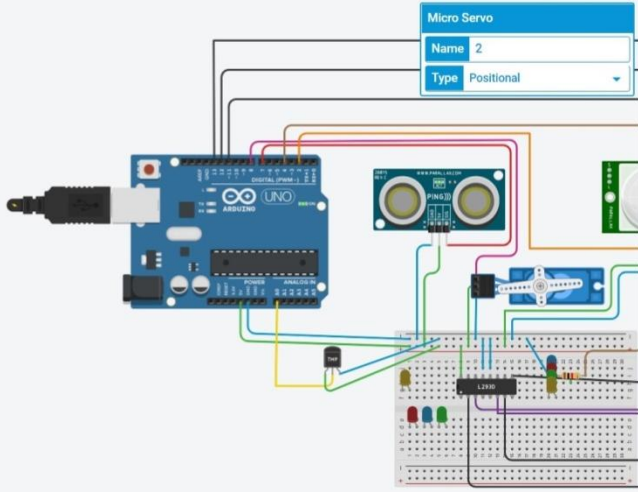
tinkercad.com/things/dYHTZ0x7pQd-copy-of-home-automation-system/edit?tenant=circuits

Copy of Home automation system Saved

Simulator time: 00:00:20.861

Code Stop Simulation Send To

1 (Arduino Uno R3)



Micro Servo

Name 2

Type Positional

```
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   digitalWrite(12,LOW);
90   digitalWrite(13,LOW);
91 }
92
93 long microsecondsToInches(long microseconds) {
94   return microseconds / 74 / 2;
95 }
96
97 long microsecondsToCentimeters(long microseconds) {
98   return microseconds / 29 / 2;
99 }
100 }
```

Serial Monitor

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