

Temperature Sensor [TMP36]
Name 2

Components Basic

Search

- Resistor
- LED
- Pushbutton
- Potentiometer
- Capacitor
- Slideswitch
- 9V Battery
- Coin Cell 3V Battery
- 1.5V Battery

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tinkercad.com/things/5PjtFqOFxyK-cool-borwo-jaiks/editel

YouTube Gmail Maps

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All changes saved

Simulator time: 00:00:03.333

Code

Stop Simulation

Send To

Temperature Sensor [TMP36]

Name 2

Components Basic

Search

Resistor

LED

Pushbutton

Potentiometer

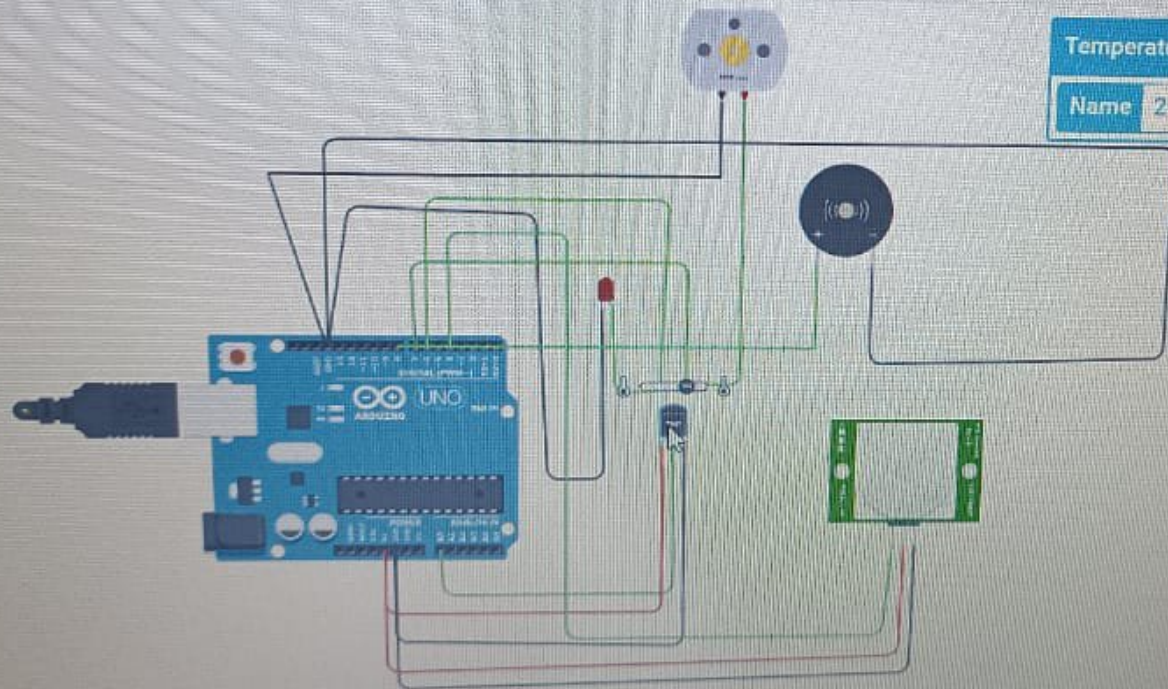
Capacitor

Slideswitch

9V Battery

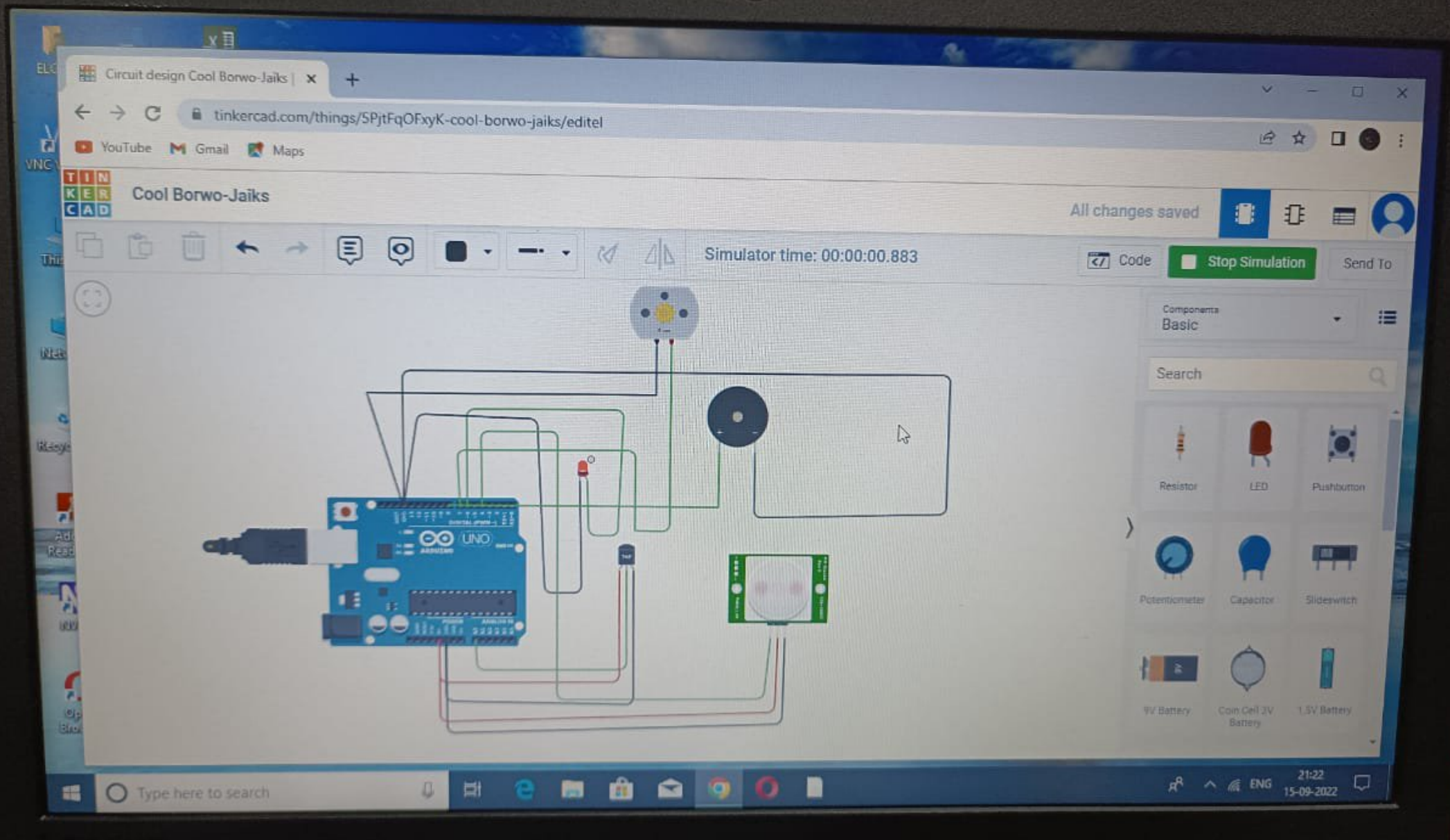
Coin Cell 3V Battery

1.5V Battery



Type here to search

ENG 21:23 15-09-2022

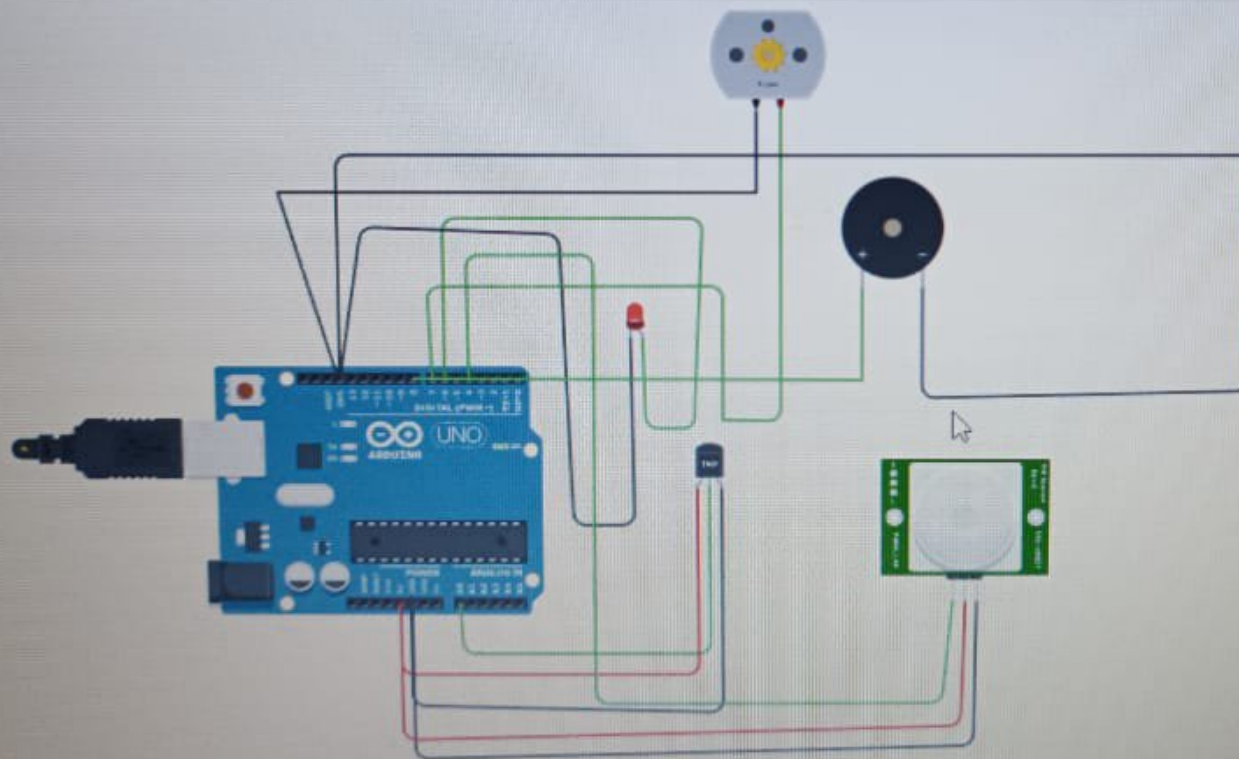




Simulator time: 00:00:01.308

Code

Stop Simulation



Components
Basic

Search



Resistor



LED

Pushb



Potentiometer



Capacitor



Slide



9V Battery



Coin Cell 3V
Battery



1.5V Batt

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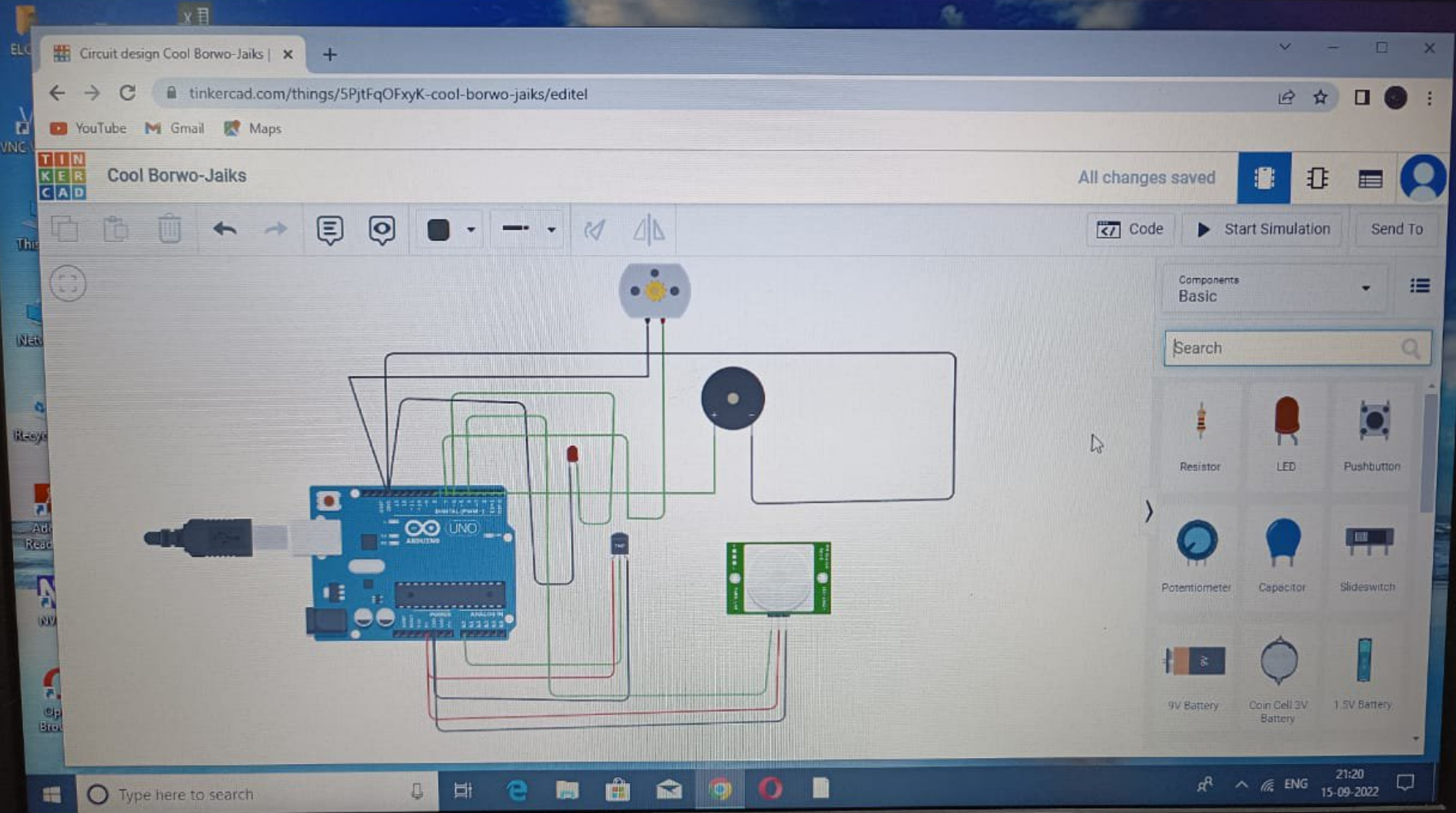
Code Start Simulation Send To

Text

1 const int pir = 4;
2 const int temp = A0;
3
4 int led = 6;
5 int motor = 7;
6 int buzzer = 8;
7
8 void setup()
9 {
10 Serial.begin(9600);
11 pinMode(pir, INPUT);
12 pinMode(temp, INPUT);
13 pinMode(led, OUTPUT);
14 pinMode(motor, OUTPUT);
15 pinMode(buzzer, OUTPUT);
16 }
17
18 void loop()
19 {
20 int pirval = digitalRead(pir);
21 int tempval = analogRead(temp);
22 if(pirval == HIGH)
23 {
24 digitalWrite(led, HIGH);
25 }
26 }

Serial Monitor

The image shows a Tinkercad workspace with an Arduino Uno R3 board connected to several components: a PIR sensor, a temperature sensor (DS18B20), an LED, a motor, and a buzzer. The code in the 'Code' tab defines pins for these components and implements a logic where the LED turns on when the PIR sensor detects motion. The interface includes a top navigation bar with links to YouTube, Gmail, and Maps, a toolbar with various editing tools, and a bottom status bar showing the time and date as 21:21 on 15-09-2022.



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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

Type here to search

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All changes saved

Code

Start Simulation

Send To

16 }

17 }

18 void loop()

19 {

20 int pirval = digitalRead(pir);

21 int tempval = analogRead(temp);

22 if(pirval == HIGH)

23 {

24 digitalWrite(led,HIGH);

25 }

26 else

27 {

28 digitalWrite(led,LOW);

29 }

30 if(tempval>=200)

31 {

32 digitalWrite(motor,HIGH);

33 digitalWrite(buzzer,HIGH);

34 }

35 else

36 {

37 digitalWrite(motor,LOW);

38 digitalWrite(buzzer,LOW);

39 }

40 }

Serial Monitor

Arduino Uno R3

Wiring diagram showing connections to a PIR sensor, a temperature sensor, an LED, a motor, and a buzzer.