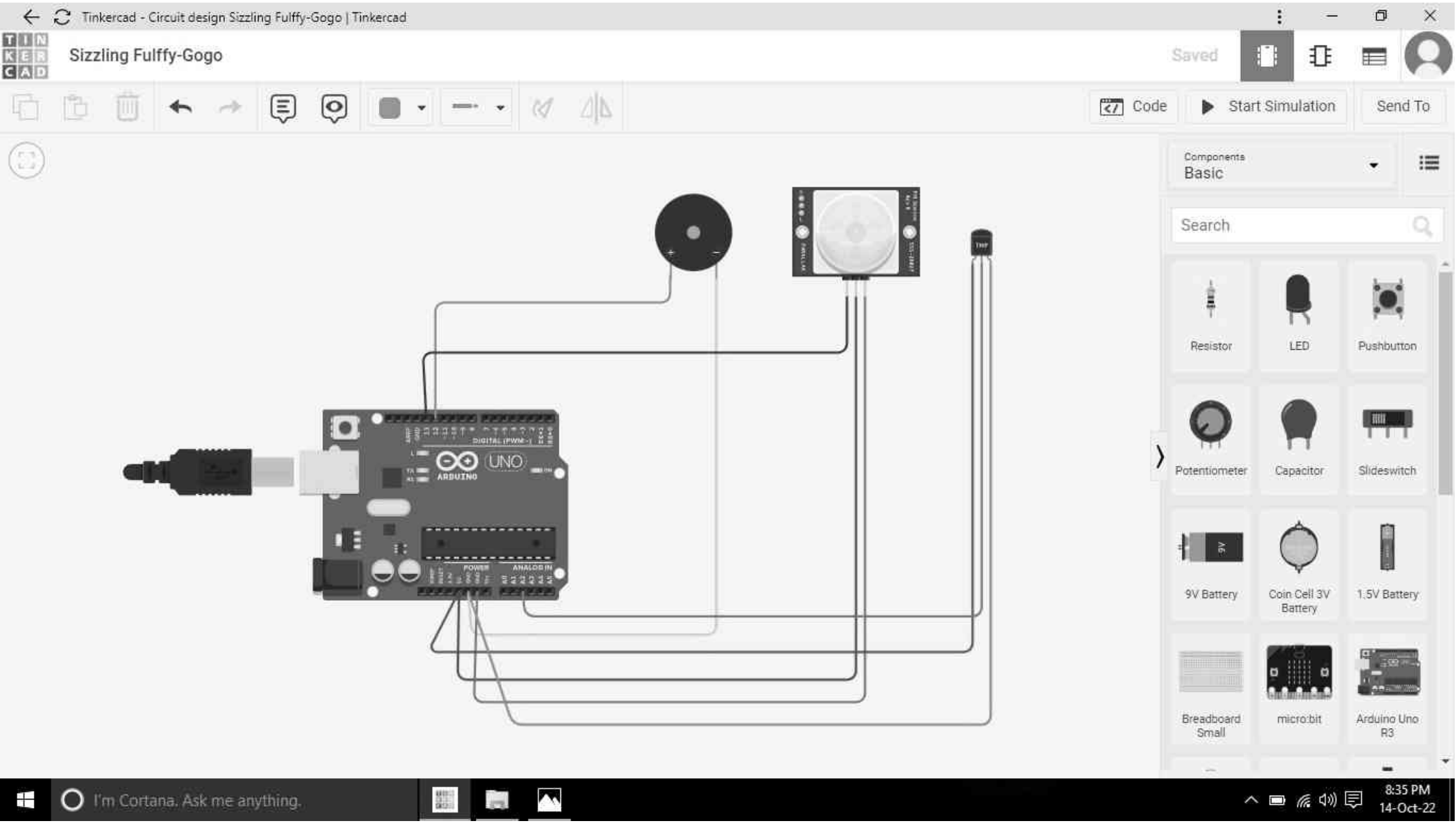
Tinkercad - Circuit design Sizzling Fulffy-Gogo | Tinkercad
Sizzling Fulffy-Gogo
Saved
Code
Start Simulation
Send To
Components
Basic
Search
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V Battery
Coin Cell 3V Battery
1.5V Battery
Breadboard Small
micro:bit
Arduino Uno R3
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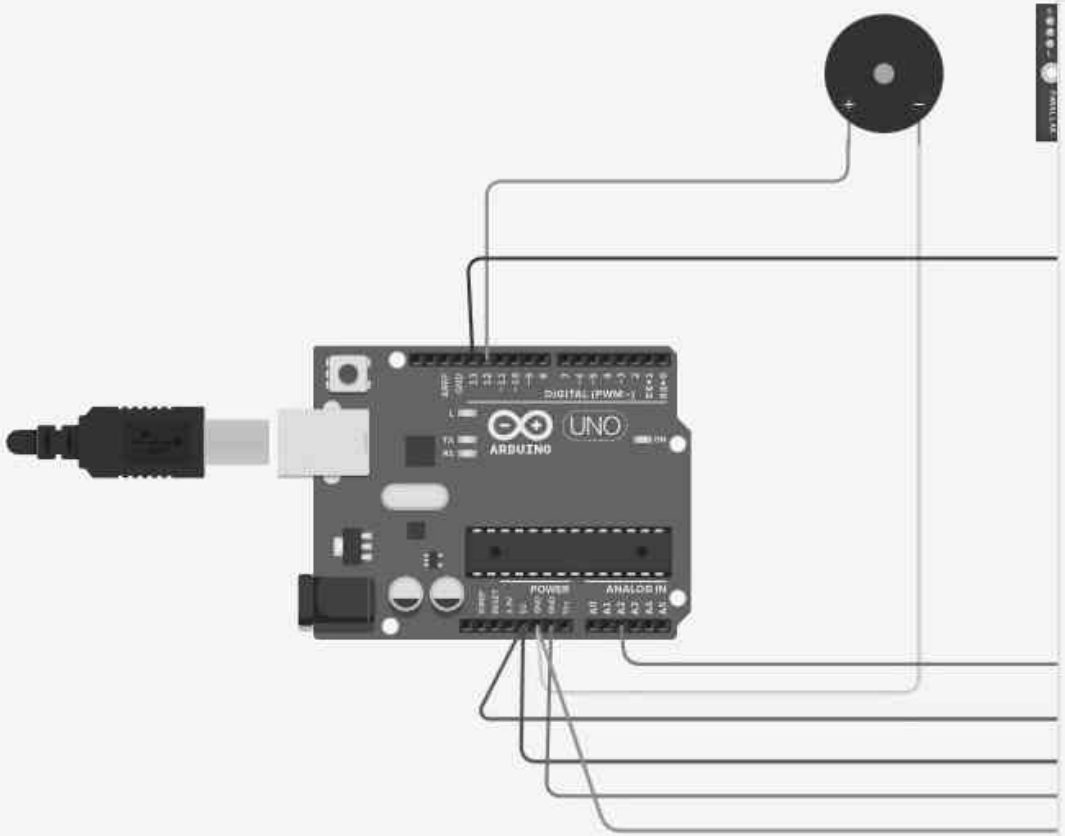
Sizzling Fulffy-Gogo

Saved

Code | Start Simulation | Send To



Text | 1 (Arduino Uno R3)

```
#define sensorPin A3
int Buzz=8;//Define Bizzer pin
int LED=13;//Define LED pin
int PIR=4;//Define PIR pin
int val=0;//Initializing the value as zero at the beginning

void setup(){
  pinMode(sensorPin,INPUT);
  pinMode(Buzz,OUTPUT);
  pinMode(LED,OUTPUT);
  Serial.begin(9600);
}

void loop(){
  //Get a reading from the temperature sensor:
  int reading=analogRead(sensorPin);

  //convert the reading into voltage:
  float voltage=reading*(5000 / 1024.0);

  //Convert the voltage into the temperature in Celsius:
  float temperature=(voltage-500)/10;

  //Print the temperature in the Serial Monitor:
  Serial.print(temperature);
  Serial.print("\xC2\xB0");//shows degree symbol
  Serial.println("C");

  delay(1000);//wait a second between readings
  if(temperature>40)
  {
    digitalWrite(LED,HIGH);//Turn LED ON
```

Serial Monitor

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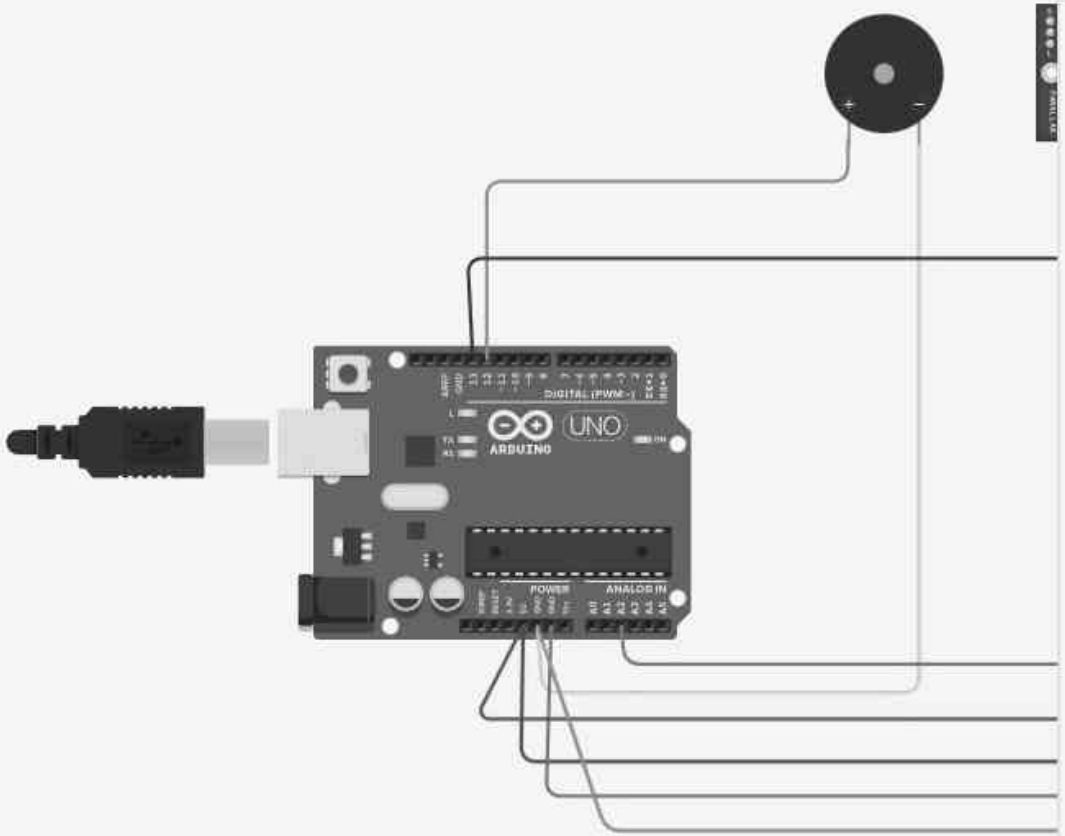
Code | Start Simulation | Send To



Text | 1 (Arduino Uno R3)

```
    {
      digitalWrite(LED,HIGH);//Turn LED ON
      digitalWrite(Buzz,HIGH);//Turn Buzzer ON
      Serial.println("Temperature is High");//Print this in Serial
    }
    if(temperature<40&&temperature<30)
    {
      digitalWrite(LED,LOW);
      digitalWrite(Buzz,LOW);
      Serial.println("Temperature is normal");
    }

    else
    {
      digitalWrite(LED,LOW);
      digitalWrite(Buzz,LOW);
      Serial.print("Temperature is low");
    }

    val=digitalRead(PIR);//The value read from PIR pin will be assi
    if(val==HIGH){
      digitalWrite(LED,HIGH);//Turn LED ON
      digitalWrite(Buzz,HIGH);//Turn Buzzer ON
      Serial.println("Movement Detected");//Print this text in Seri
    }
    else
    {
      digitalWrite(LED,LOW);
      digitalWrite(Buzz,LOW);
      Serial.println("Movement not Detected");
  }
  }
```

Serial Monitor

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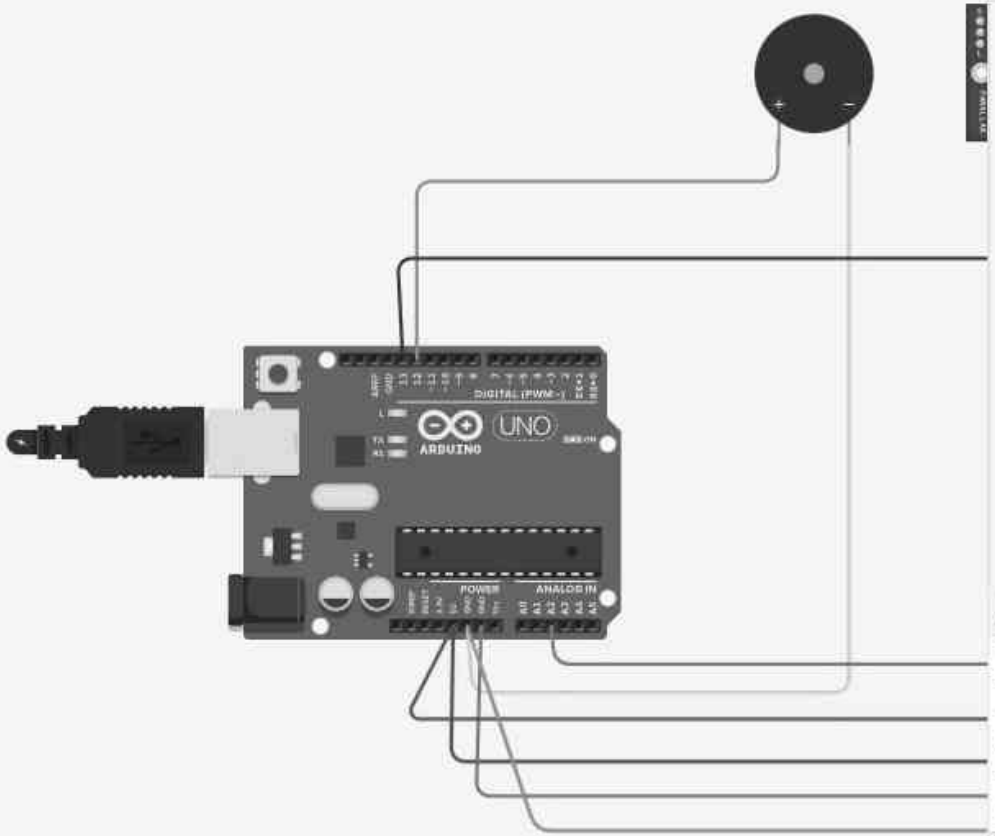
Sizzling Fulffy-Gogo

Saved

Simulator time: 00:00:10

Code | Stop Simulation | Send To

1 (Arduino Uno R3)




```
32    digitalWrite(LED,HIGH);//Turn LED ON
33    digitalWrite(Buzz,HIGH);//
34    Serial.println("Temperatur
35  }
36  if(temperature<40&&temperatu
37  {
38    digitalWrite(LED,LOW);
39    digitalWrite(Buzz,LOW);
40    Serial.println("Temperatur
41  }
42
43  else
44  {
45    digitalWrite(LED,LOW);
46    digitalWrite(Buzz,LOW);
47    Serial.print("Temperature is low");
48  }
49
50  val=digitalRead(PIR);//The value read from PIR pin will be assi
51  if(val==HIGH){
52    digitalWrite(LED,HIGH);//Turn LED ON
53
```

How the debugger works

1. Add breakpoints by clicking on the line numbers.
2. Hover over the variables while paused to see their value.
3. Use the buttons above to resume simulation or step one line at a time.

Serial Monitor

```
Temperature is lowMovement not Detected
226.86Â°C
Temperature is High
Temperature is lowMovement not Detected
286.43Â°C
Temperature is High
Temperature is lowMovement not Detected
281.05Â°C
```

Send | Clear

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