Code:

```
void setup()
{
  Serial.begin(9600);
  pinMode(12,OUTPUT);
  pinMode(2,INPUT);

}

void loop()
{
  int motion=digitalRead(2);
  double data=analogRead(A0);
  double n=data/1024;
  Serial.print("Converted Analog Data: ");
  Serial.println(n);
  double volt=n*5; //because connected to 5v
  Serial.print("Voltage data: ");
```

```
Serial.println(volt);
double off=volt-0.5;
Serial.print("Offset Data: ");
Serial.println(off);
double temperature=off*100;
Serial.print("Temperature Data: ");
Serial.println(temperature);
if(motion==1 && temperature<60)
  tone(12,100);
else if(motion==0 && temperature>60)
  tone(12,200);
else if(motion==1 && temperature>60)
  noTone(12);
else if(motion==0 && temperature<60)
   noTone(12);

}
```

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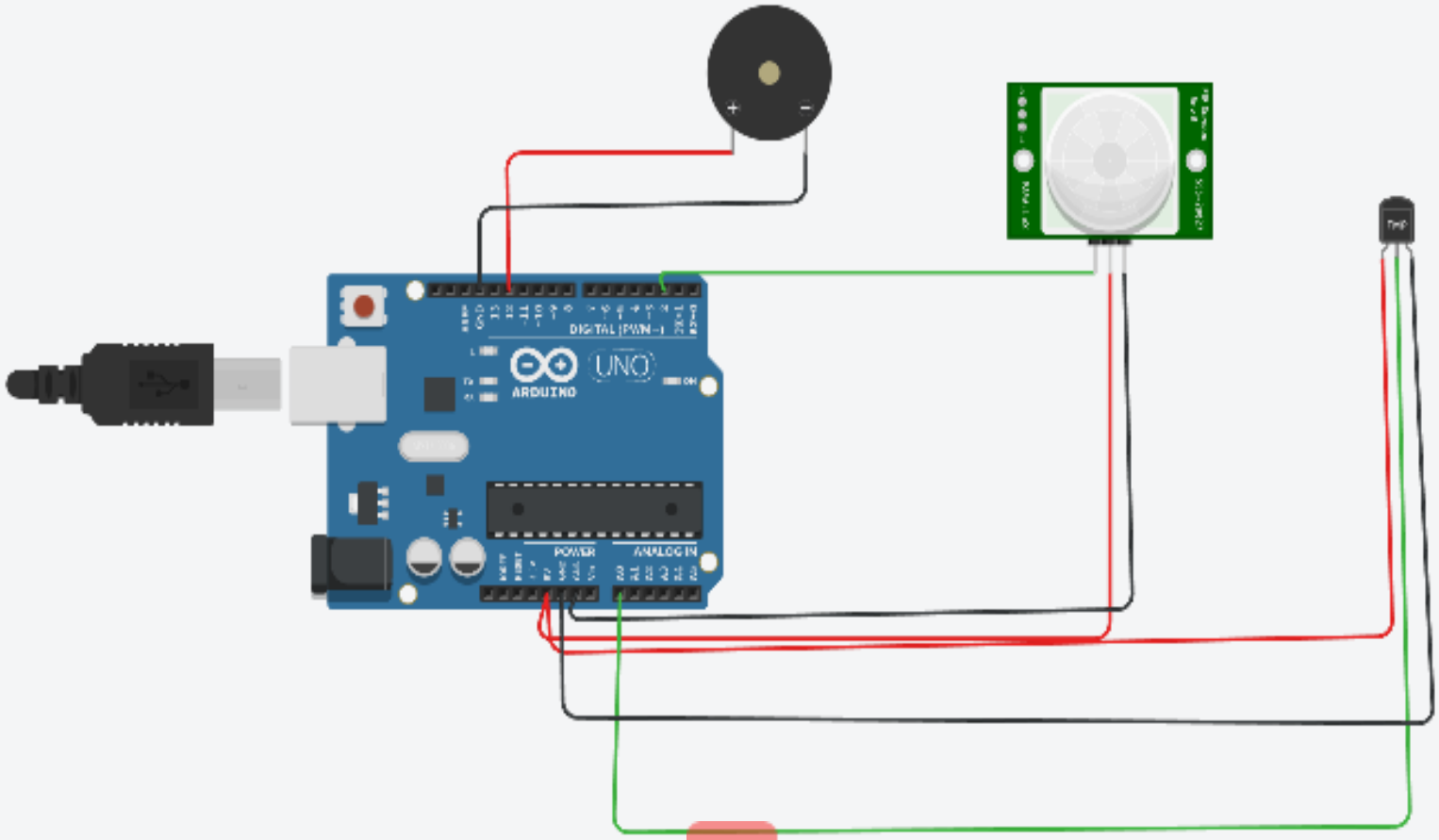
Code | Start Simulation | Send To



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15-09-2022

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Tinkercad dashboard

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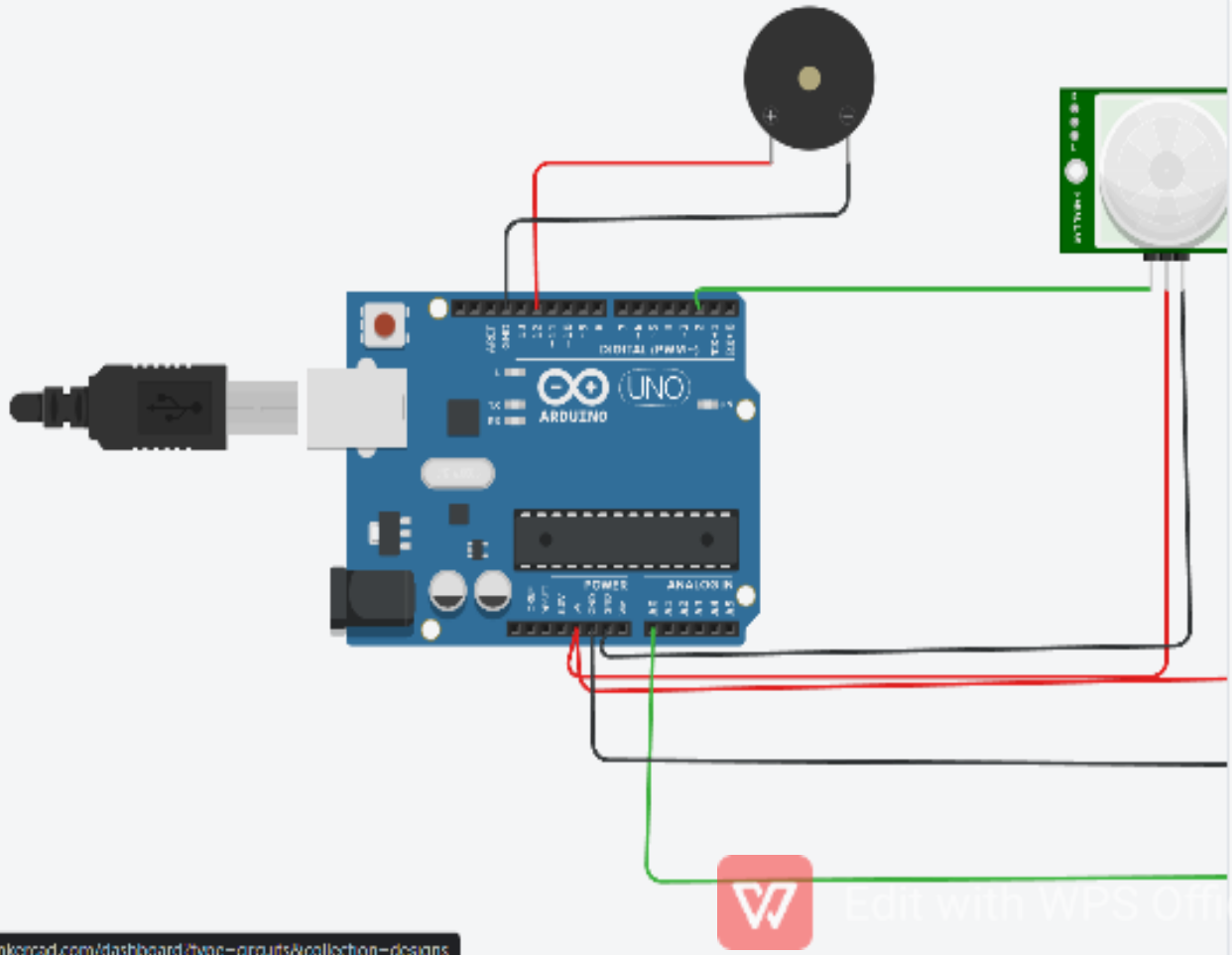
Text | 1 (Arduino Uno R3)



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void loop()
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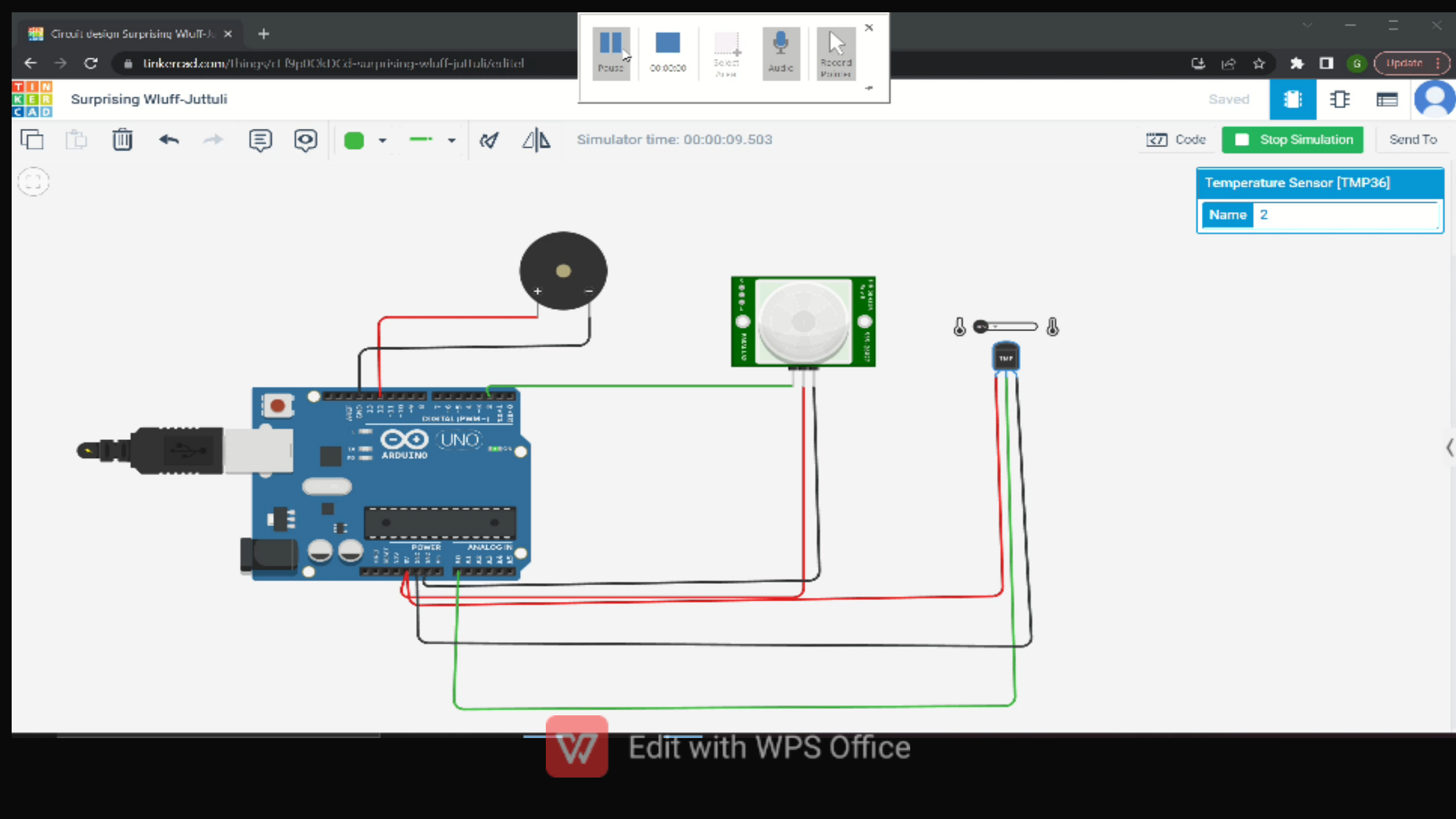
  double data=analogRead(A0);
  double n=data/1024;
  Serial.println("Converted Analog Data: ");
  Serial.println(n);
  double volt=n*5; //because connected to 5V
  Serial.println("Voltage data: ");
  Serial.println(volt);
  double atr=volt-0.5;
  Serial.println("Ottach Data: ");
  Serial.println(atr);
  double temperature=atr*100;
  Serial.println("Temperature Data: ");
  Serial.println(temperature);
  if(motion==1 && temperature<60)
    tone(12,100);
  else if(motion==0 && temperature>60)
    tone(12,200);
  else if(motion==1 && temperature>60)
    noTone(12);
  else if(motion==0 && temperature<60)
     noTone(12);

}
```

Serial Monitor


Circuit design Surprising Wluff-Ju
tinkercad.com/things/cI f9pDCkDCd-surprising-wluff-juttuli/editel
Pause
Audio
Record
Surprising Wluff-Juttuli
Saved
Simulator time: 00:00:09.503
Code
Stop Simulation
Send To
Temperature Sensor [TMP36]
Name
2
ARDUINO
UNO
POWER
ANALOG IN
Edit with WPS Office