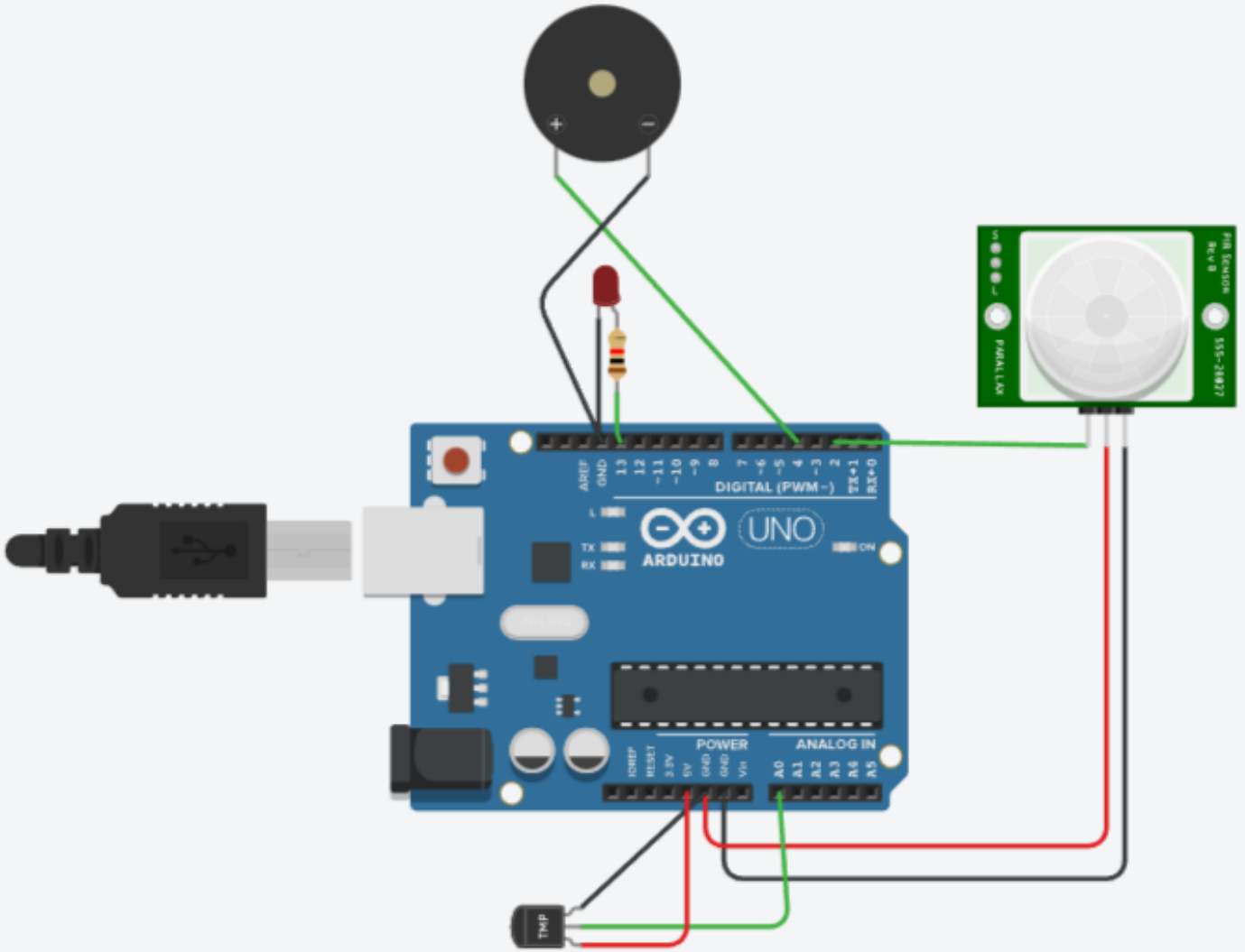
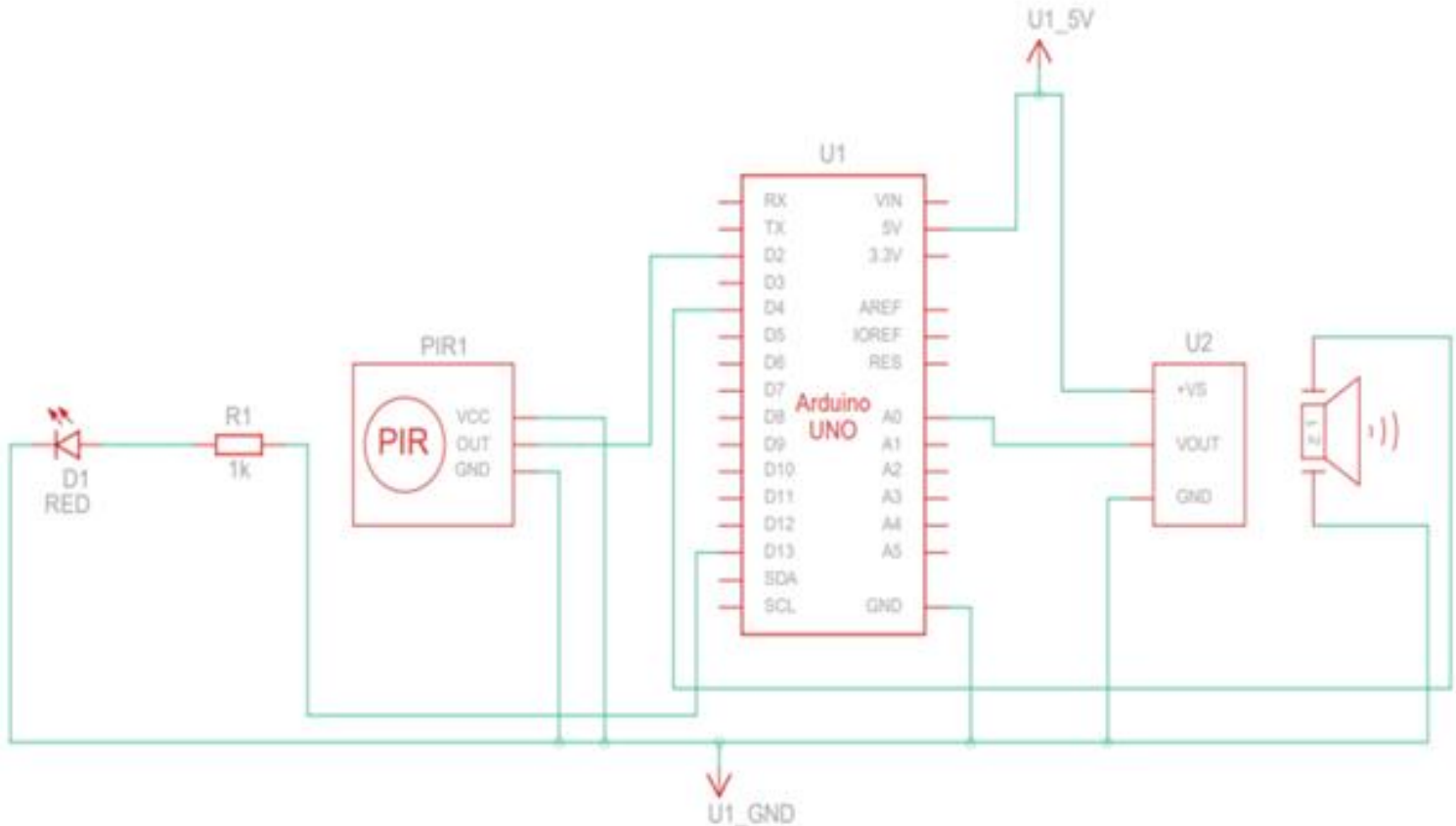
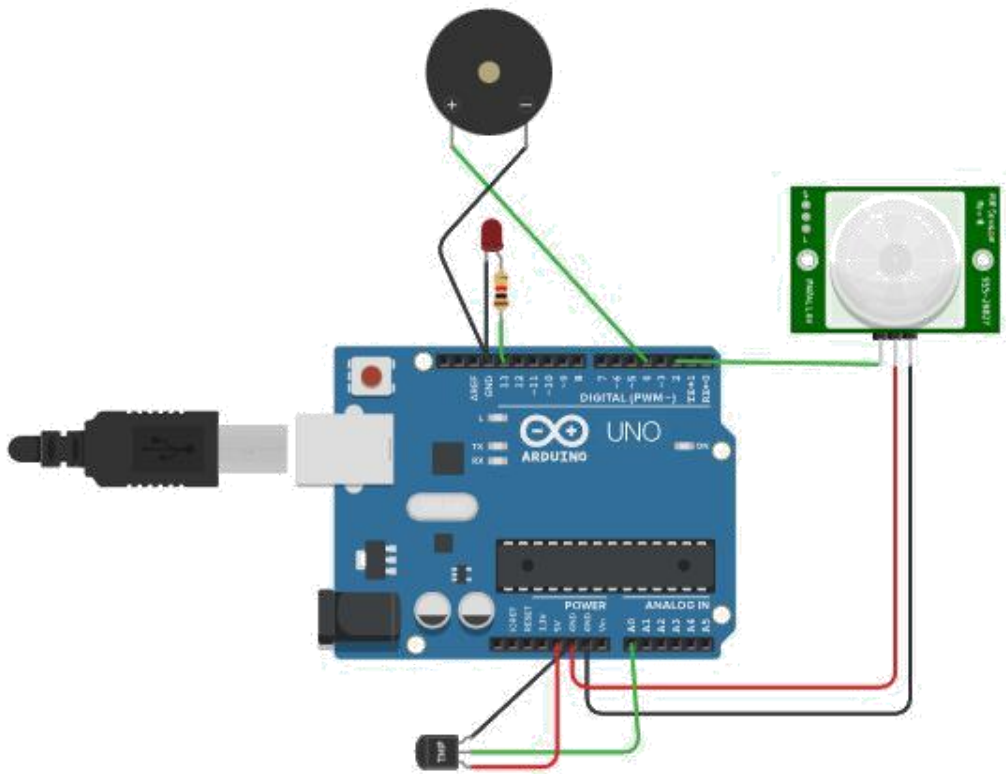

DIGITAL (PWM~)
UNO
ARDUINO
POWER
ANALOG IN
PARALLAX
TMP


U1_5V
U1
RX
TX
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
SDA
SCL
VIN
5V
3.3V
AREF
IOREF
RES
A0
A1
A2
A3
A4
A5
GND
Arduino
UNO
PIR1
PIR
VCC
OUT
GND
R1
1k
D1
RED
U2
+VS
VOUT
GND
U1_GND

```
// C++ code

void setup()
{
  //LED_BUILTIN =PIN 13
  pinMode(LED_BUILTIN, OUTPUT);
  pinMode(2,INPUT);
  pinMode(4,OUTPUT); Serial.begin(9600);
  Serial.println("Start");
}
void loop()
{

  int TEMP =analogRead(A0);
  Serial.println(TEMP);
  int SENSORSTATE =digitalRead(2);
  Serial.println(SENSORSTATE);
  if(SENSORSTATE==1){
  digitalWrite(LED_BUILTIN, HIGH);
    digitalWrite(4,HIGH);
   Serial.println("DETECTED");

  }
```

```
else{
  digitalWrite(LED_BUILTIN, LOW);
    digitalWrite(4,LOW);
     Serial.println("NOT DETECTED");
 }
  if(TEMP>200){
    digitalWrite(4,HIGH);
    Serial.println(TEMP);

  }
  else{
    digitalWrite(4,LOW);
    Serial.println(TEMP);
  }


  delay(10);
}
```



Code | Start Simulation | Send To

Text | 1 (Arduino Uno R3)

```
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  Serial.println(SENSORSTATE);
  if(SENSORSTATE==1){
  digitalWrite(LED_BUILTIN, HIGH);
    digitalWrite(4,HIGH);
   Serial.println("DETECTED");

  }
```
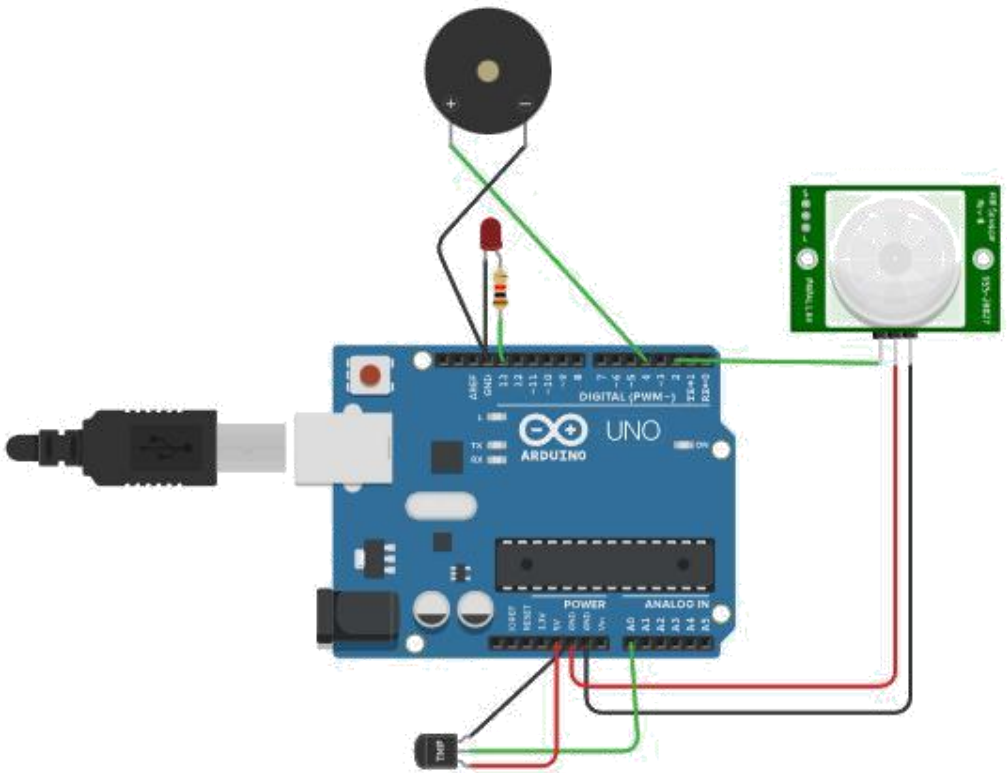

Serial Monitor



Code | Start Simulation | Send To

Text | 1 (Arduino Uno R3)

```
19   if(SENSORSTATE==1){
20   digitalWrite(LED_BUILTIN, HIGH);
21     digitalWrite(4,HIGH);
22    Serial.println("DETECTED");
23
24   }
25   else{
26   digitalWrite(LED_BUILTIN, LOW);
27     digitalWrite(4,LOW);
28      Serial.println("NOT DETECTED");
29  }
30   if(TEMP>200){
31     digitalWrite(4,HIGH);
32     Serial.println(TEMP);
33
34   }
35   else{
36     digitalWrite(4,LOW);
37     Serial.println(TEMP);
38   }
39
40
41   delay(10);
42  }
```