

// 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

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Text



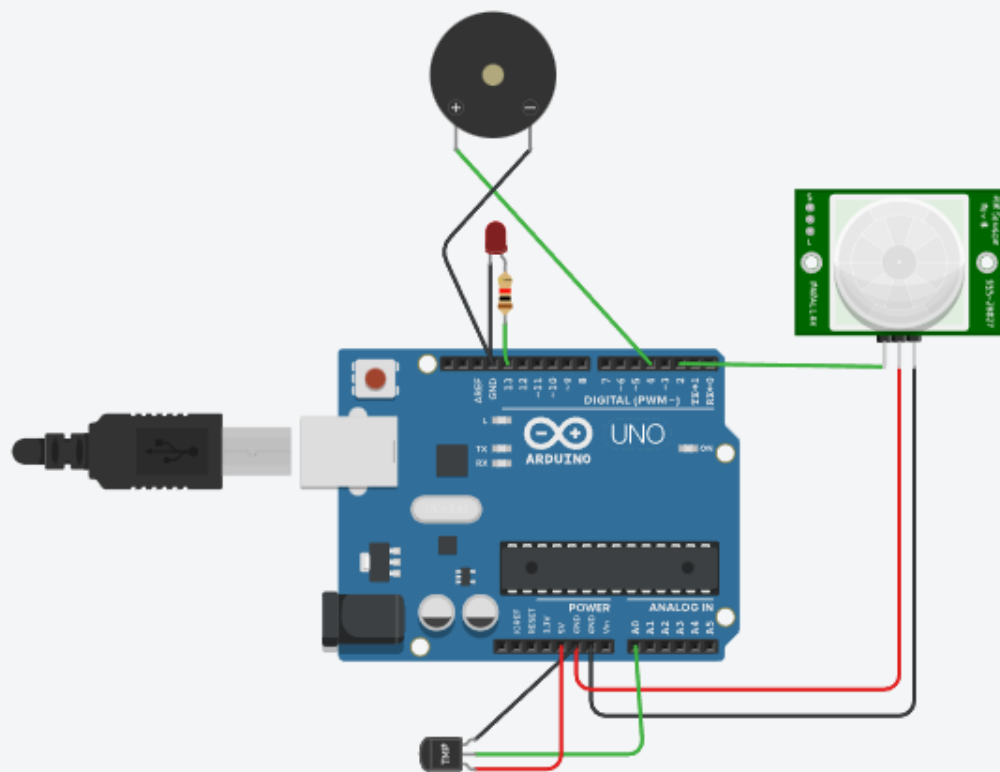
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1 (Arduino Uno R3)

```
1 // C++ code
2 //
3 void setup()
4 {
5     //LED_BUILTIN =PIN 13
6     pinMode(LED_BUILTIN, OUTPUT);
7     pinMode(2,INPUT);
8     pinMode(4,OUTPUT); Serial.begin(9600);
9     Serial.println("Start");
10 }
11
12 void loop()
13 {
14
15     int TEMP =analogRead(A0);
16     Serial.println(TEMP);
17     int SENSORSTATE =digitalRead(2);
18     Serial.println(SENSORSTATE);
19     if(SENSORSTATE==1){
20         digitalWrite(LED_BUILTIN, HIGH);
21         digitalWrite(4,HIGH);
22         Serial.println("DETECTED");
23     }
24 }
```



Serial Monitor





Code

Start Simulation

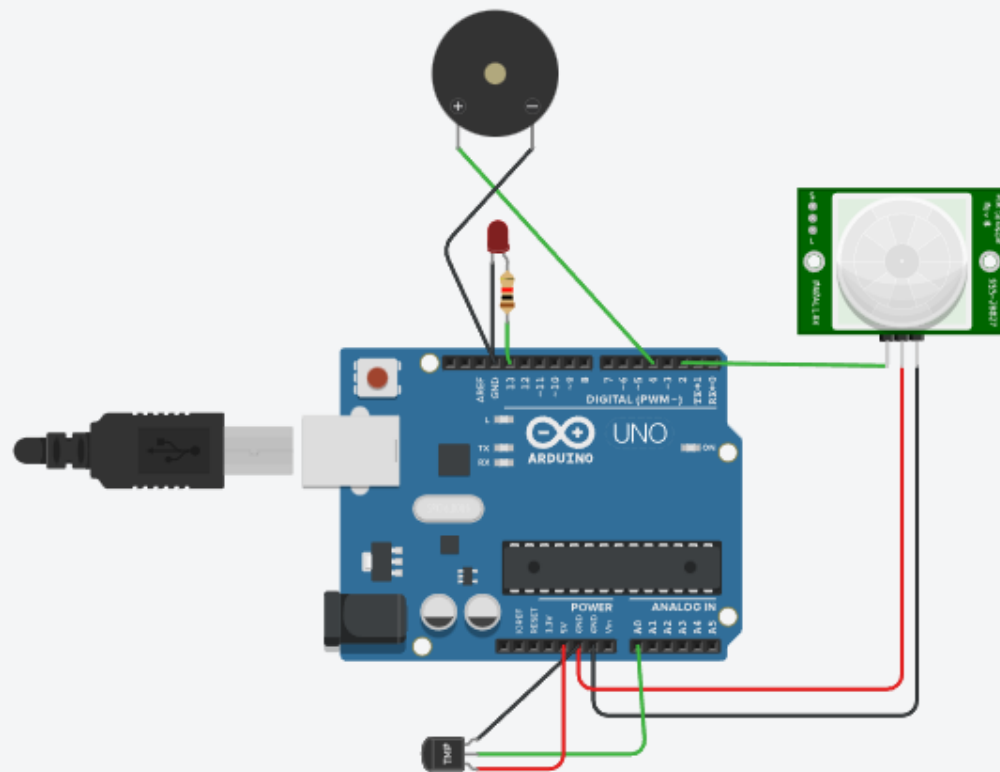
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Text



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 }
```