

Assignment 1

```
// C++ code
//
void setup()
{
  pinMode(8,OUTPUT);
  pinMode(5,OUTPUT);
  Serial.begin(9600);
}

void loop()
{
  int a=analogRead(A0);
  int b=analogRead(A3);
  if(a>100)
  {
    digitalWrite(8,HIGH);
    Serial.println("motion detected");
  }
  else
  {
    digitalWrite(8,LOW);
    Serial.println("motion not detected");
  }
  if(b>300)
  {
    digitalWrite(5,HIGH);
    Serial.println("gas leakage detected");
  }
  else
  {
    digitalWrite(5,LOW);
    Serial.println("gas leakage not detected");
  }
}
```

```

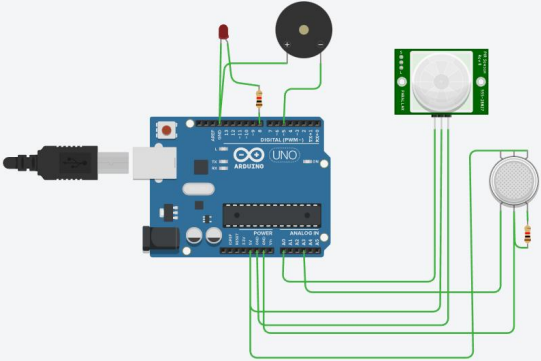
delay(1000);
}

```

Benildus Assignment 1

All changes saved

Code Start



```

1 // C++ code
2 //
3 void setup()
4 {
5   pinMode(8,OUTPUT);
6   pinMode(5,OUTPUT);
7   Serial.begin(9600);
8 }
9
10 void loop()
11 {
12   int a=analogRead(A0);
13   int b=analogRead(A3);
14   if(a>100)
15   {
16     digitalWrite(8,HIGH);
17     Serial.println("motion detected");
18   }
19   else
20   {
21     digitalWrite(8,LOW);
22     Serial.println("motion not detected");
23   }
24   if(b>300)
25   {

```

Serial Monitor

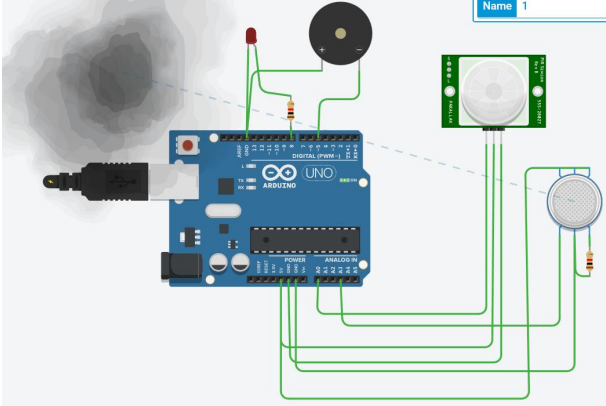
Benildus Assignment 1

All changes saved

Code Stop Simulation Send To

Simulator time: 00:00:28

1 (Arduino Uno R3)



```

11 {
12   int a=analogRead(A0);
13   int b=analogRead(A3);
14   if(a>100)
15   {
16     digitalWrite(8,HIGH);
17     Serial.println("motion detected");
18   }
19   else
20   {
21     digitalWrite(8,LOW);
22     Serial.println("motion not detected");
23   }
24   if(b>300)
25   {
26     digitalWrite(5,HIGH);
27     Serial.println("gas leakage detected");
28   }
29   else
30   {
31     digitalWrite(5,LOW);
32     Serial.println("gas leakage not detected");
33   }
34   delay(1000);
35 }

```

Serial Monitor

```

motion not detected
gas leakage not detected
motion not detected
gas leakage not detected
motion not detected
gas leakage not detected
motion not detected
gas leakage not detected

```

Send Clear

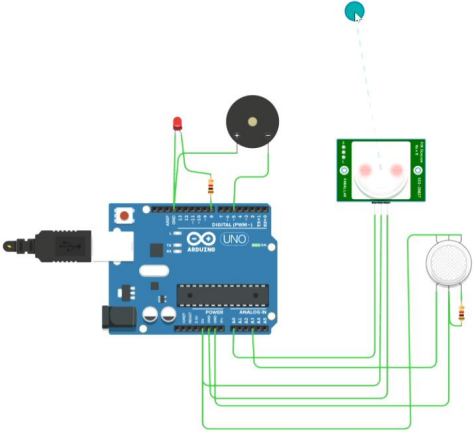
Benildus Assignment 1

Simulator time: 00:02:44

All changes saved

Code Stop Simula

1 (Ard



PIR Sensor	
Name	1
Target X	19.85
Target Y	-227.58
Target Y	-235.54
Target Y	-208.45

```

11 {
12   int a=analogRead(A0);
13   int b=analogRead(A3);
14   if(a>100)
15   {
16     digitalWrite(8,HIGH);
17     Serial.println("motion detected");
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21     digitalWrite(8,LOW);
22     Serial.println("motion not detected");
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24   if(b>300)
25   {
26     digitalWrite(5,HIGH);
27     Serial.println("gas leakage detected");
28   }
29   else
30   {
31     digitalWrite(5,LOW);
32     Serial.println("gas leakage not detected");
33   }
34   delay(1000);
35 }

```

Serial Monitor

```

motion not detected
gas leakage not detected
motion detected
gas leakage not detected
motion detected
gas leakage not detected
motion detected
gas leakage not detected

```

Tinkercad Assignment link:

<https://www.tinkercad.com/things/0TJSb1zbUdb?sharecode=jpUwYP62YkQxXZTWnZSMsqITR1Hsx5BTI2oTQ3coJpY>