

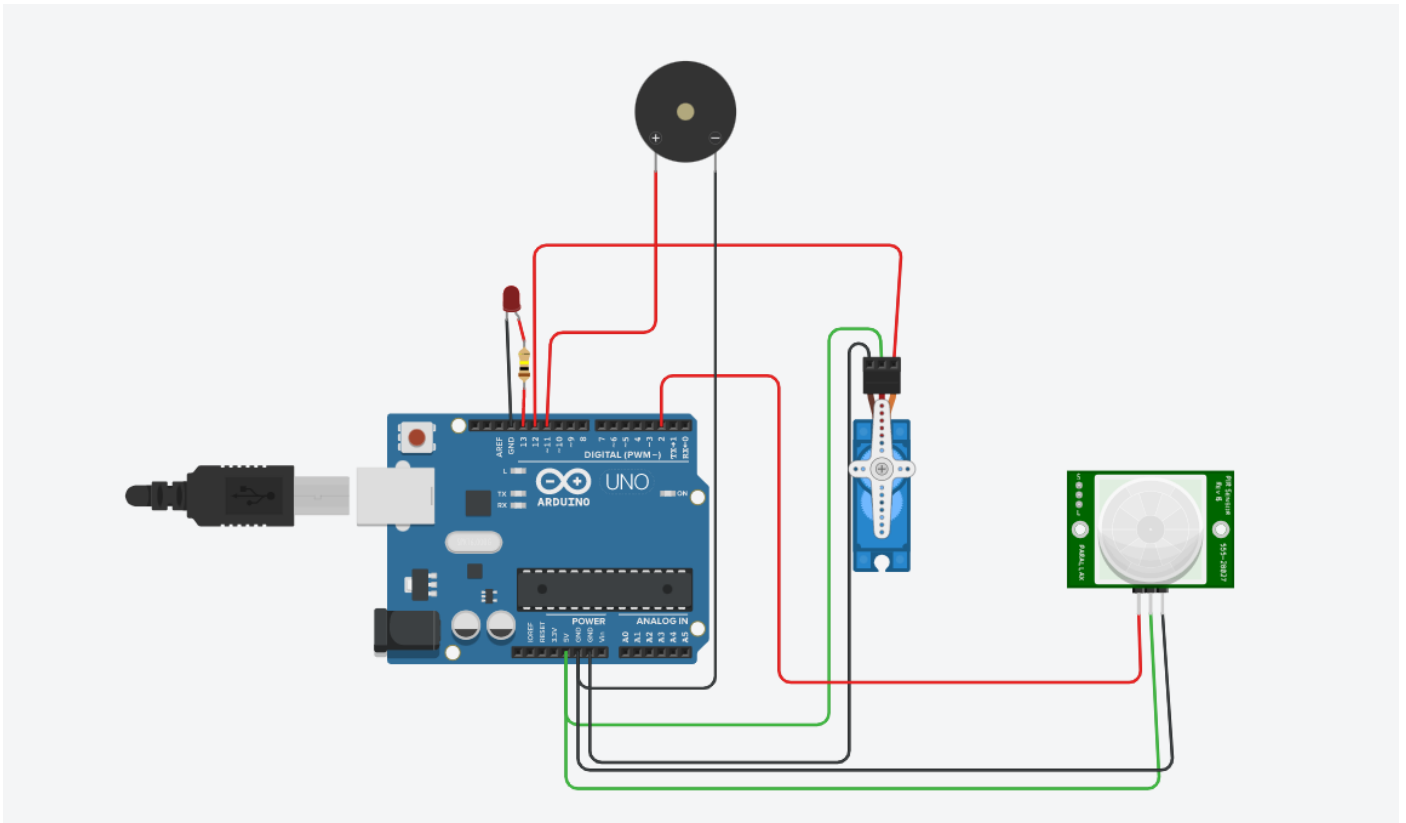
## ASSESSMENT 1

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### AUTOMATIC DOOR

CIRCUIT:



```

1  #include <Servo.h>
2  Servo s;
3  void setup()
4  {
5      pinMode(2, INPUT);
6      s.attach(12);
7      s.write(0);
8      pinMode(13, OUTPUT);
9      Serial.begin(9600);
10     pinMode(11, OUTPUT);
11 }
12
13 void loop()
14 {
15     int p = digitalRead(2);
16     if(p==1)
17     {
18         digitalWrite(13, HIGH);
19         Serial.println("Motion detected!!!");
20         tone(11, 0);
21         s.write(90);
22         delay(5000);
23         s.write(0);
24     }
25 }

```



Serial Monitor

Text



1 (Arduino Uno R3)

```

10     pinMode(11, OUTPUT);
11 }
12
13 void loop()
14 {
15     int p = digitalRead(2);
16     if(p==1)
17     {
18         digitalWrite(13, HIGH);
19         Serial.println("Motion detected!!!");
20         tone(11, 0);
21         s.write(90);
22         delay(5000);
23         s.write(0);
24     }
25
26 }
27 else{
28     digitalWrite(13, LOW);
29     Serial.println("No motion detected!!!");
30     noTone(11);
31     delay(1000);
32 }
33 }
34

```



Serial Monitor

**CODE:**

```
#include <Servo.h>

Servo s;

void setup()
{
    pinMode(2, INPUT);
    s.attach(12);
    s.write(0);
    pinMode(13,OUTPUT);
    Serial.begin(9600);
    pinMode(11,OUTPUT);
}

void loop()
{
    int p = digitalRead(2);
    if(p==1)
    {
        digitalWrite(13,HIGH);
        Serial.println("Motion detected!!!");
        tone(11,0);
        s.write(90);
        delay(5000);
        s.write(0);

    }
    else{
```

### OUTPUT:

