

ASSIGNMENT 1

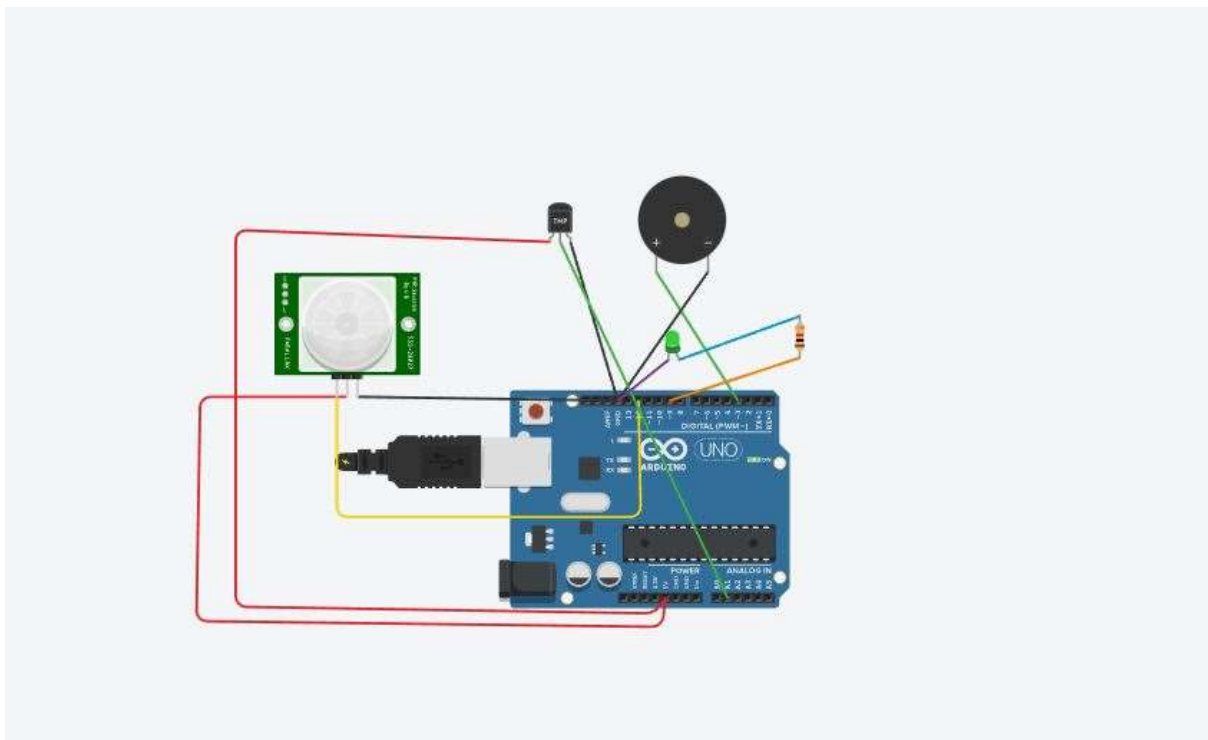
Team Members:

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Question:

To make a smart home in tinkercad.

Circuit:



Code:

```
1 void setup()
2 {
3   pinMode(3,OUTPUT);
4   pinMode(9,OUTPUT);
5 }
6 void loop()
7 {
8   digitalWrite(LED_BUILTIN, HIGH);
9   delay(1000); // Wait for 1000 millisecond(s)
10  digitalWrite(LED_BUILTIN, LOW);
11  delay(1000); // Wait for 1000 millisecond(s)
12  int measure = digitalRead(12);
13  double ana = analogRead(A1);
14  double v = ana/1024;
15  double t = v*5;
16  double k = t-0.5;
17  double fin = k*100;
18  if (fin > 50){
19    digitalWrite(3,HIGH);
20  }
21  else{
22    digitalWrite(3,LOW);
23  }
24  if (measure == 1){
25    digitalWrite(9,HIGH);
26  }
27  else{
28    digitalWrite(9,HIGH);
29  }
```