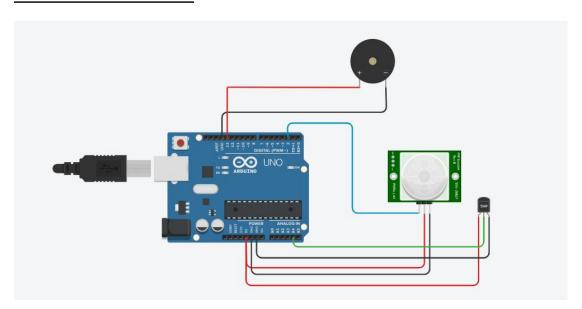
# **ASSIGNMENT 1**

### **SMARTHOME USING SENSORS:**

## **MEMBERS**

1. VISHNU PRASATH .S (420419106029) 2. PUGAZHENTHI .K (420419106021) 3.BALASUBRAMANIAN .A (420419106005) 4. SANTHOSH .S (420419106023)

### **TINKERCAD DESIGN:**



#### **CODE:**

```
// C++ code
//
void setup()
{Serial.begin(9600);
 pinMode(2,INPUT);
 pinMode(13,OUTPUT);
void loop()
 int motion=digitalRead(2);
 double tempdata=analogRead(A4);
 double n=tempdata/1024;
 double volt=n*5;
 double off =volt-0.5;
 double temperature=off*100;
 double degree= 65;
 if (motion==1){
  digitalWrite(13,HIGH);
  delay(1000);
  digitalWrite(13,HIGH);
  delay(1000);
  Serial.println("motion detected")
  }
 else{
  digitalWrite(13,LOW);
  Serial.println("motion is not detected");
 }
 if (temperature> degree) {
  digitalWrite(13,HIGH);
  Serial.println("temperature:");
  Serial.println(temperature);
 }
 else {
  digitalWrite(13,LOW);
  Serial.println("temperature:");
  Serial.println(temperature);
 }
}
```