

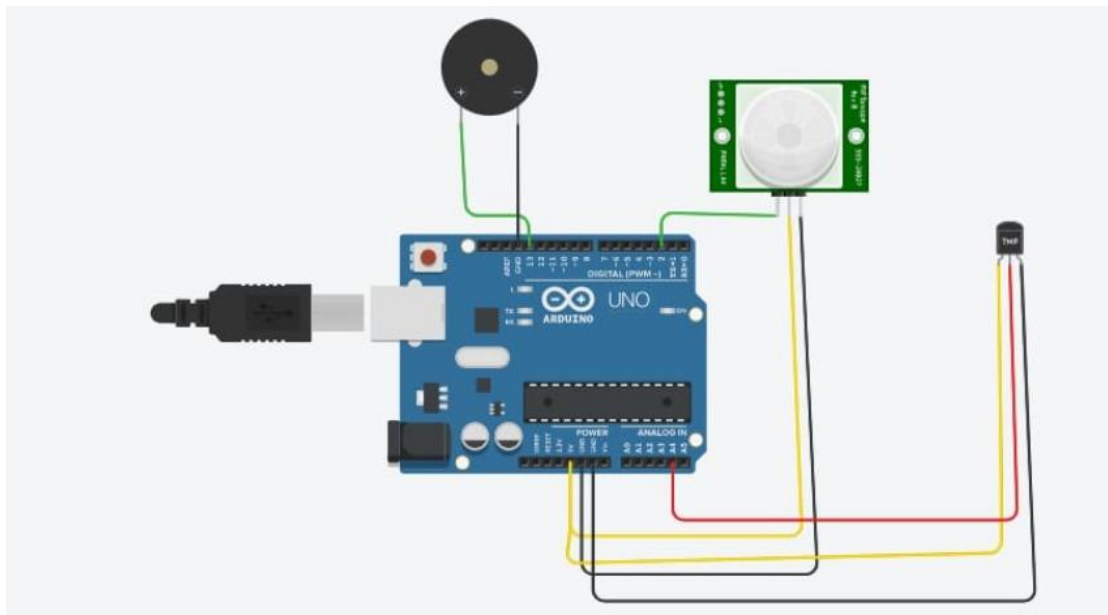
ASSIGNMENT 1

SMARTHOME USING SENSORS:

MEMBERS

1. VISHNU PRASATH .S (420419106029)
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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);
  }
}
```