

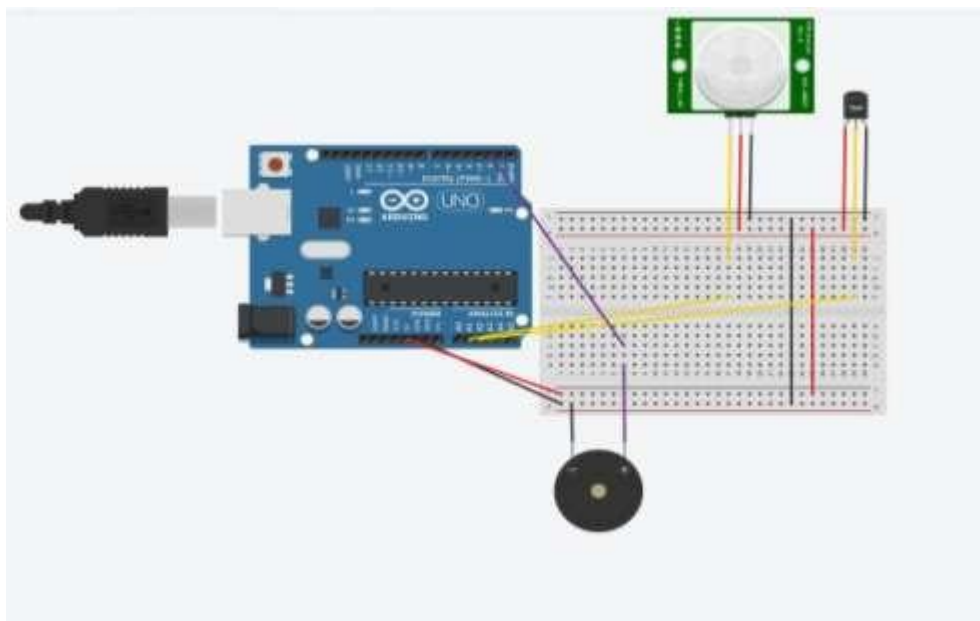
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ASSIGNMENT-1

Smart Home – using two sensors we should automate the home.

CIRCUIT DIAGRAM:



CODE:

```
int Buzzer= 2;
int Temperature_sensor= A2;
int PIR= A1;
int val1= 0;
int val2= 0;
void setup() {
  pinMode(Buzzer, OUTPUT);
  pinMode(Temperature_sensor, INPUT);
  pinMode(PIR, INPUT);
  Serial.begin(9600);
}
```

```
void loop() {  
  val1 = analogRead(PIR);  
  val2 = analogRead(Temperature_sensor);  
  float temp = ( val2/1024.0)*5000;  
  float cel = temp/10;  
  if(val1 == HIGH)  
  {  
    digitalWrite(Buzzer, HIGH);  
  }  
  else if(cel > 60)  
  {  
    digitalWrite(Buzzer,HIGH);  
  }  
  else  
  {  
    digitalWrite(Buzzer, LOW);  
  }  
}
```