ASSIGNMENT-1

Assignment Date	17 September 2022
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Maximum mark	2 mark

Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it
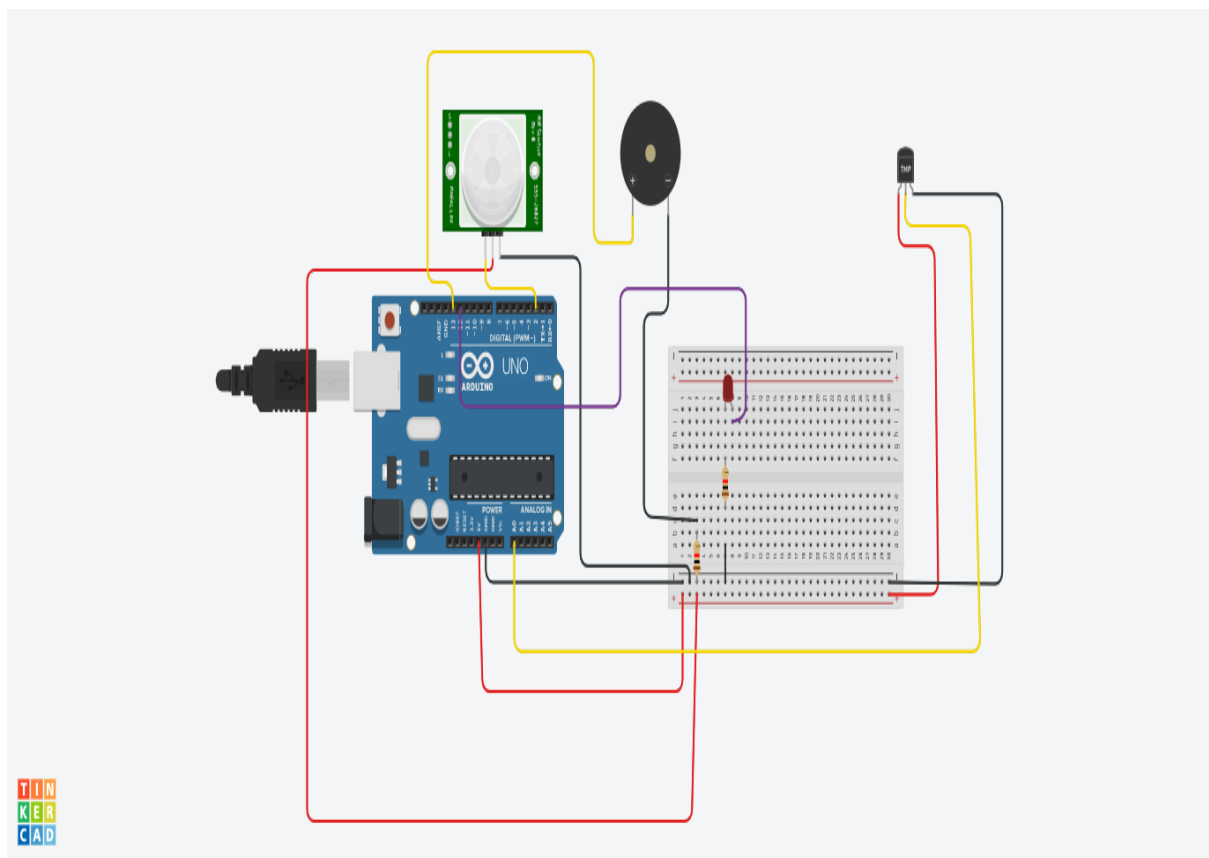
Code:

```
int baselineTemp = 0;

int celsius = 0;

int pinSensor =2;

int pinLed =12;

int pinBuzzer =13;

int pirSensor =0;

int tempSensor=A0;


void setup()

{

  pinMode(pinSensor, INPUT);

  pinMode(tempSensor, INPUT);

  Serial.begin(9600);

  pinMode(pinLed, OUTPUT);

  pinMode(pinBuzzer, OUTPUT);


}


void loop()

{
```

```
  baselineTemp = 20;


 celsius = map(((analogRead(tempSensor) - 20) * 3.04), 0, 1023, -40,
125);


 Serial.print(celsius);

 Serial.println(" C, ");

 pirSensor = digitalRead(pinSensor);


 if (pirSensor == HIGH && celsius >= baselineTemp + 40)

 {


  digitalWrite(pinLed, HIGH);

  tone(pinBuzzer, 1000,500);


 }


 else {

  digitalWrite(pinLed, LOW);

 }

 delay(10);

}
```