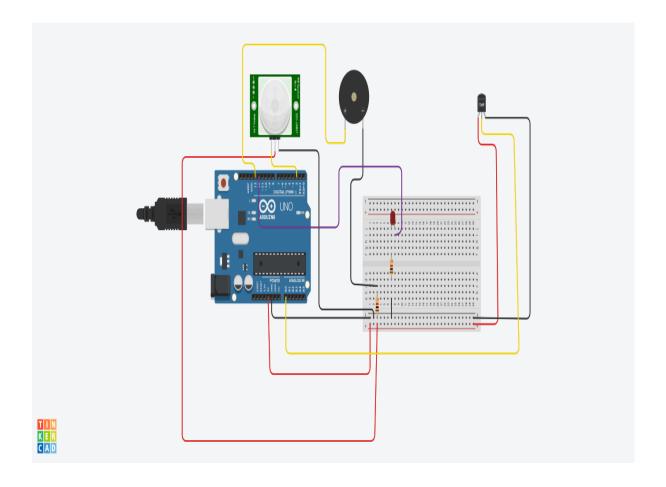
ASSIGNMENT-1

Assignment Date	17 September 2022
Student Name	AjaySaran B
Student Roll Number	910019106002
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);
}
```