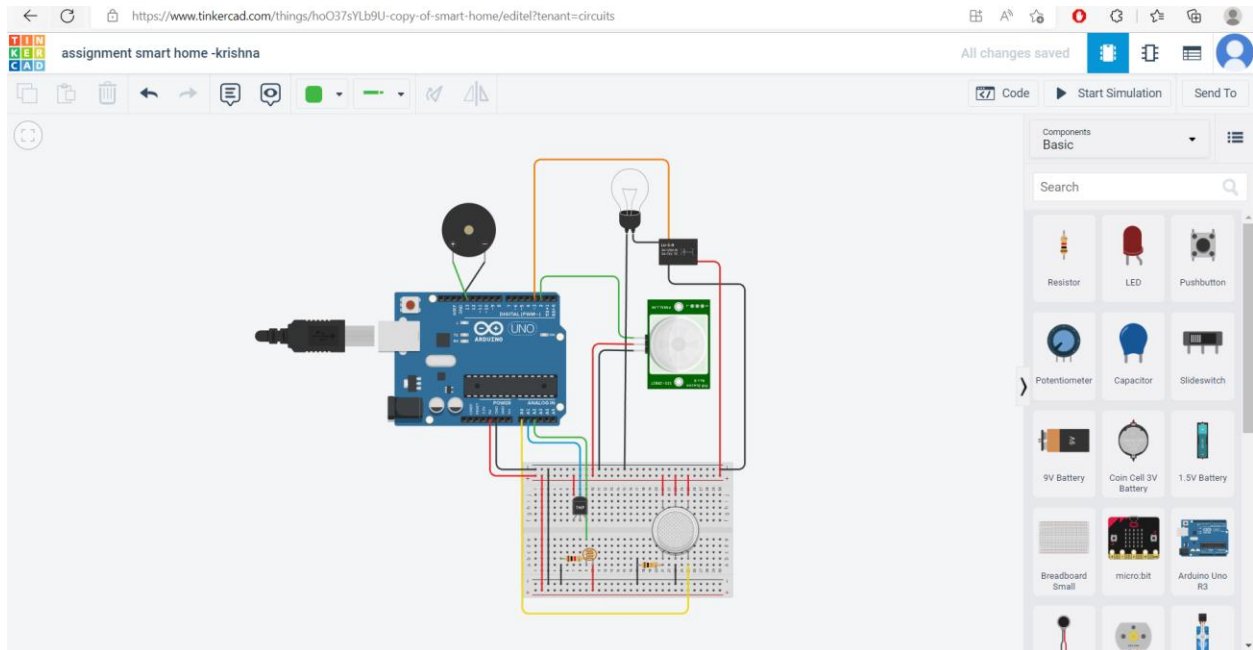


ASSIGNMENT 1

SMART HOME



CODE:

```
int PIR = 0;

int photo = 0;

int tmp = 0;

int gas = 0;

void setup()
{
  pinMode(A2, INPUT);

  pinMode(2, INPUT);

  pinMode(A1, INPUT);

  pinMode(A0, INPUT);

  Serial.begin(9600);
```

```
pinMode(3, OUTPUT);

pinMode(13, OUTPUT);

}

void loop()

{

    photo = analogRead(A2);

    PIR = digitalRead(2);

    tmp = (-40 + 0.488155 * (analogRead(A1) - 20));

    gas = analogRead(A0);

    Serial.println(gas);

    if (PIR == 1) {

        while (PIR == 1) {

            digitalWrite(3, HIGH);

            delay(100); // Wait for 100 millisecond(s)

            digitalWrite(3, LOW);

            delay(100); // Wait for 100 millisecond(s)

            PIR = digitalRead(2);

        }

    }

    if (photo >= 500) {

        digitalWrite(3, HIGH);

    } else {

        digitalWrite(3, LOW);

    }

    if (500 > gas) {
```

```
    noTone(13);  
  } else {  
    tone(13, 523, 1000);  
    delay(100);  
    noTone(13);  
    delay(100);  
  }  
}
```