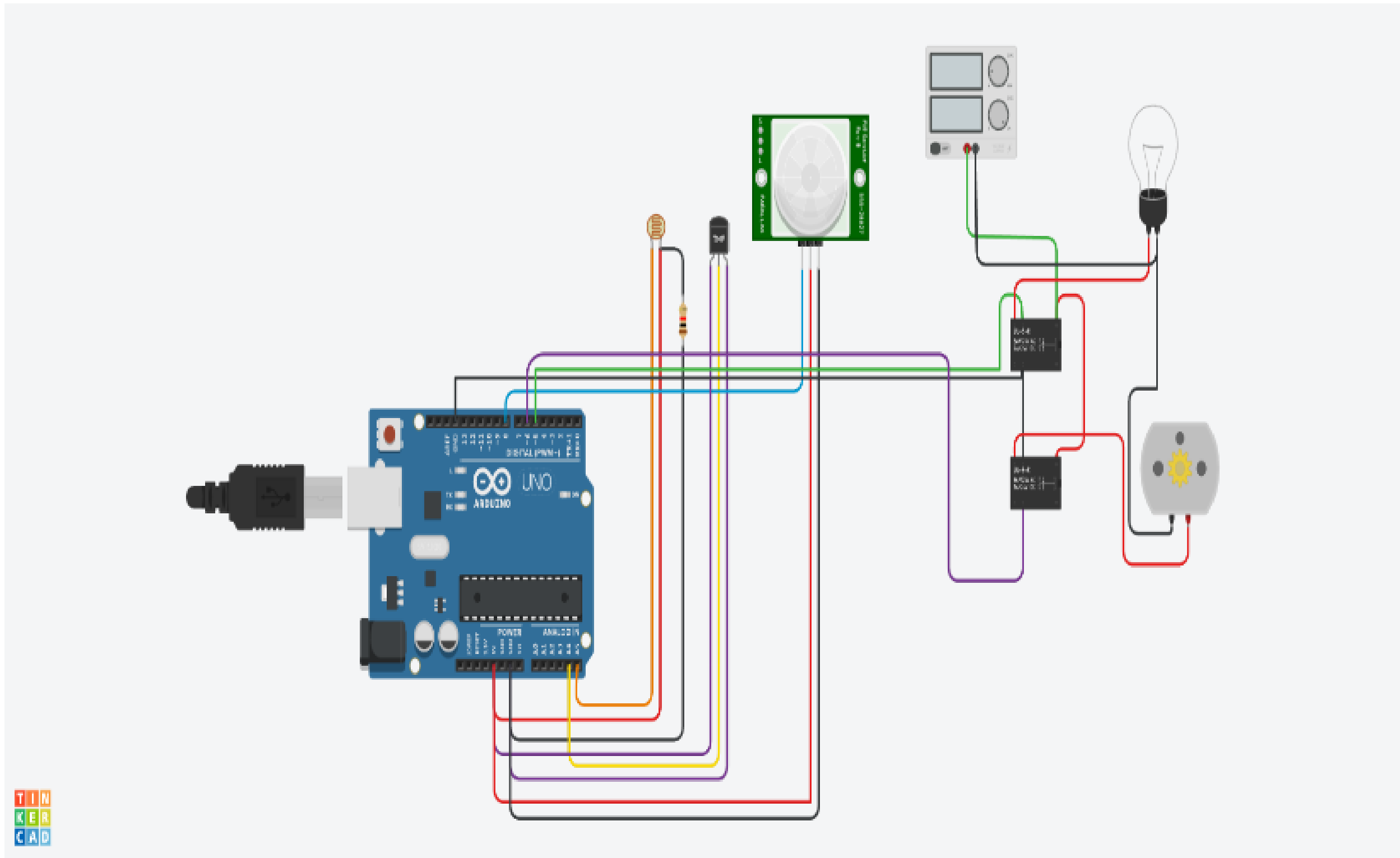


ASSIGNMENT 1

A Smart Home in wokwi with sensors , led , buzzer



CODE:

```
float x,y,z,temp;
```

```
void setup()
```

```
{
```

```
  pinMode(8, INPUT);
```

```
  pinMode(5, OUTPUT);
```

```
  pinMode(6, OUTPUT);
```

```
  pinMode(A5, INPUT);
```

```
  pinMode(A4, INPUT);
```

```
  Serial.begin(9600);
```

```
}
```

```
void loop()

{

  x=digitalRead(8);

  y=analogRead(A5);

  z=analogRead(A4);

  Serial.println(x);

  Serial.println(y);

  Serial.println(z);

  temp = (double)z / 1024;

  temp = temp * 5;

  temp = temp - 0.5;

  temp = temp * 100;

  if ( (x>0) )

  {

    if ((y<550)&&(temp>30))

    {

      digitalWrite(5, HIGH);

      digitalWrite(6, HIGH);

    }

    else if ((y<550)&&(temp<30))

    {

      digitalWrite(5, HIGH);

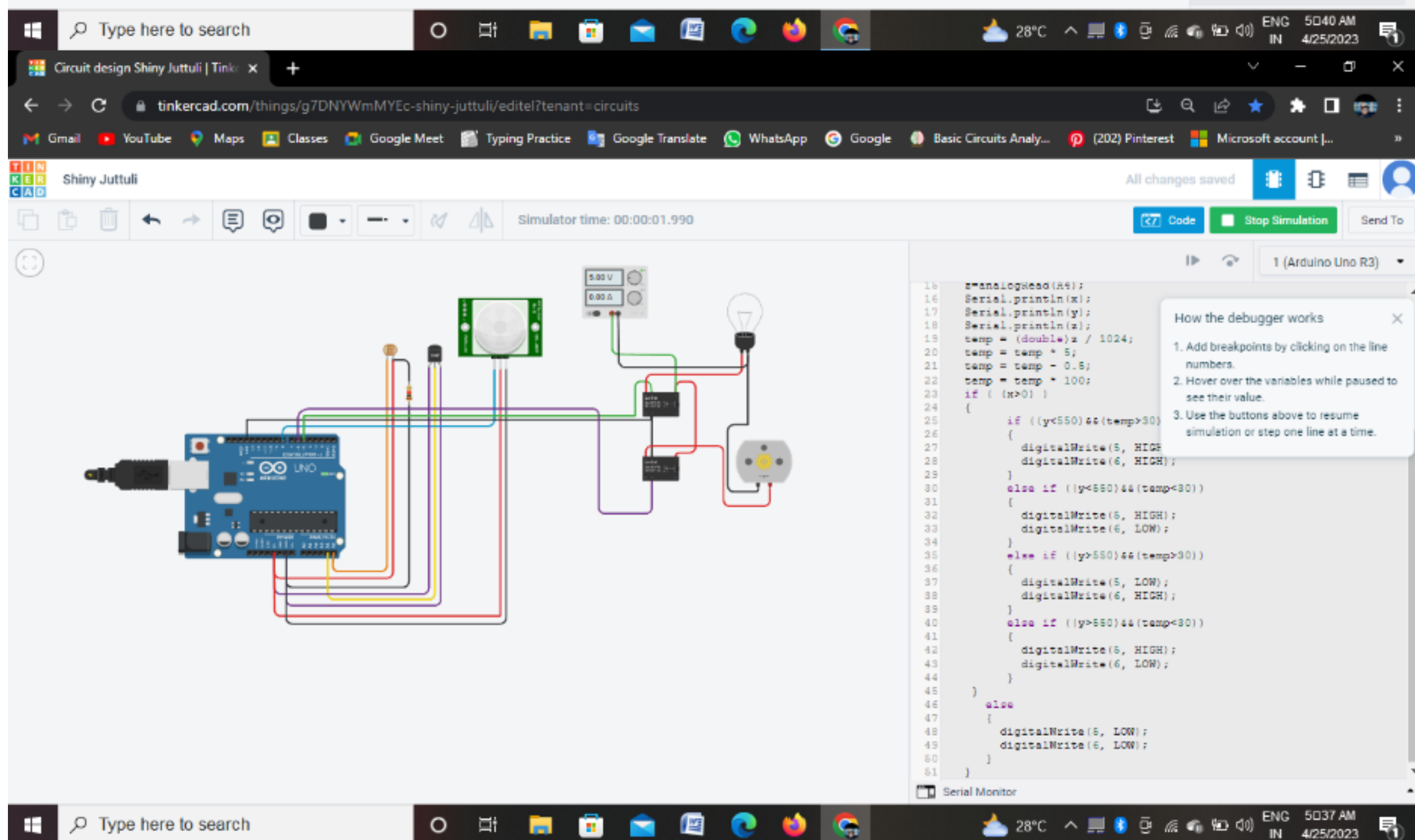
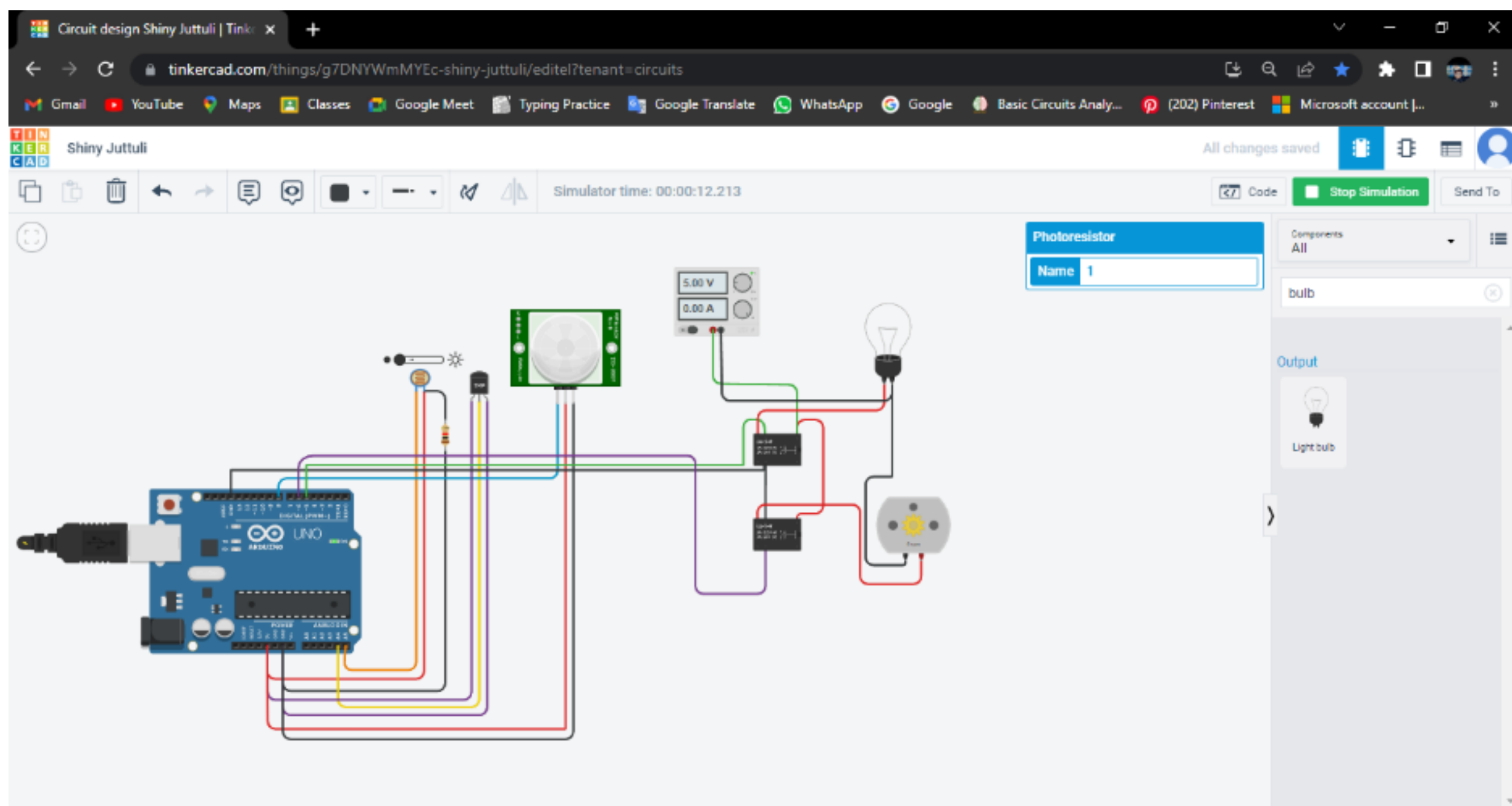
      digitalWrite(6, LOW);

    }

    else if ((y>550)&&(temp>30))
```

```
{  
    digitalWrite(5, LOW);  
    digitalWrite(6, HIGH);  
}  
  
else if ((y>550)&&(temp<30))  
{  
    digitalWrite(5, HIGH);  
    digitalWrite(6, LOW);  
}  
}  
  
else  
{  
    digitalWrite(5, LOW);  
    digitalWrite(6, LOW);  
}  
}
```

SCREENSHOTS:



Circuit design Shiny Juttuli | Tinkercad

tinkercad.com/things/g7DNYWmMYEc-shiny-juttuli/editel?tenant=circuits

Gmail YouTube Maps Classes Google Meet Typing Practice Google Translate WhatsApp Google Basic Circuits Analy... (202) Pinterest Microsoft account [...]

Shiny Juttuli

All changes saved

Simulator time: 00:00:12.449

Code Stop Simulation Send To

PIR Sensor

Name 1

Components

All

bulb

Output

Light bulb