**Assignment -1**

IOT

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| Assignment Date | 19 September 2022 |
| Student Name | V.Tharsini |
| Student Roll Number | 910619104094 |
| Maximum Marks | 2 Marks |

**Question-1:**

Home automation using tinkercad.

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| **Solution:** |

**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, LOW);**

**digitalWrite(6, LOW);**

**}**

**}**

**else**

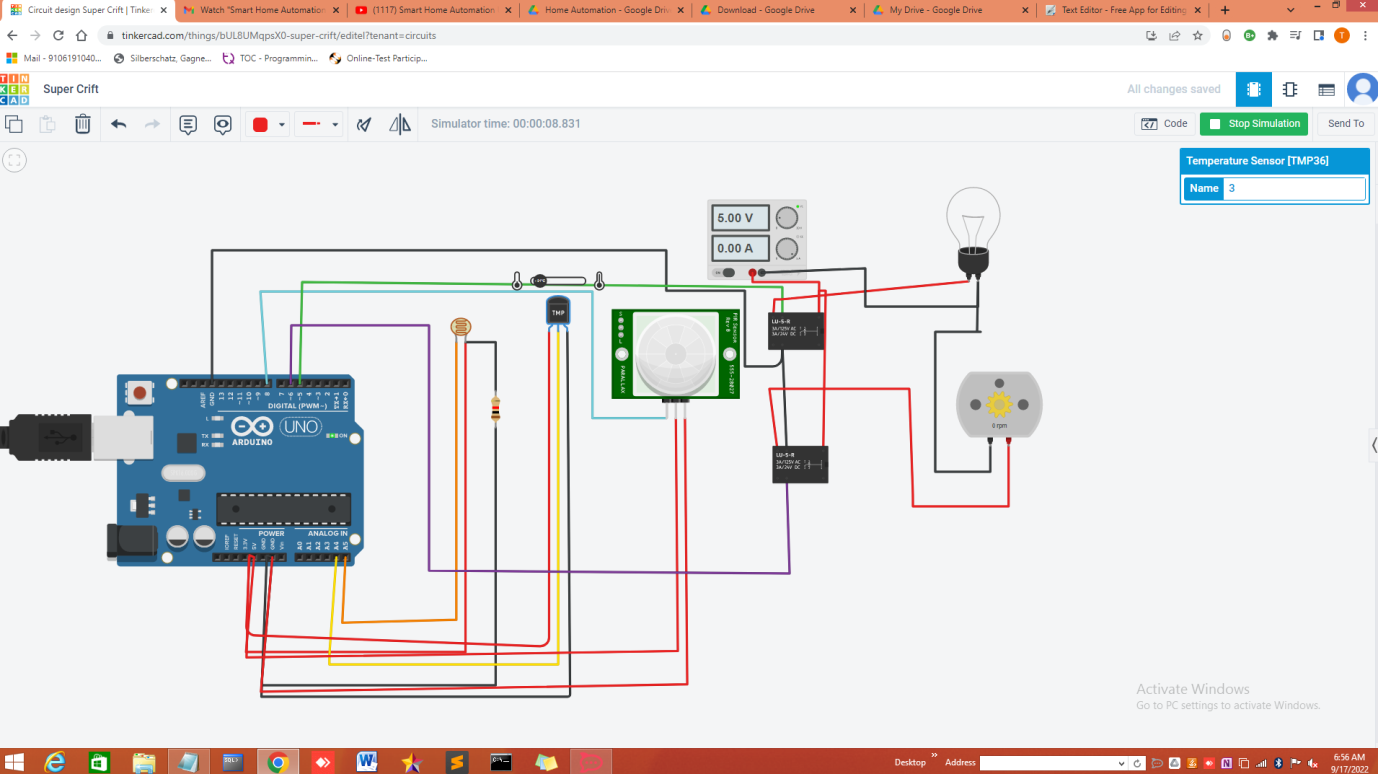
**{**

**digitalWrite(5, LOW);**

**digitalWrite(6, LOW);**

**}**

**}**



**https://www.tinkercad.com/things/bUL8UMqpsX0-super-crift/editel?tenant=circuits**

Link: [Circuit design home automation | Tinkercad](https://www.tinkercad.com/things/3AabRLQcp1u-home-automation/editel)