

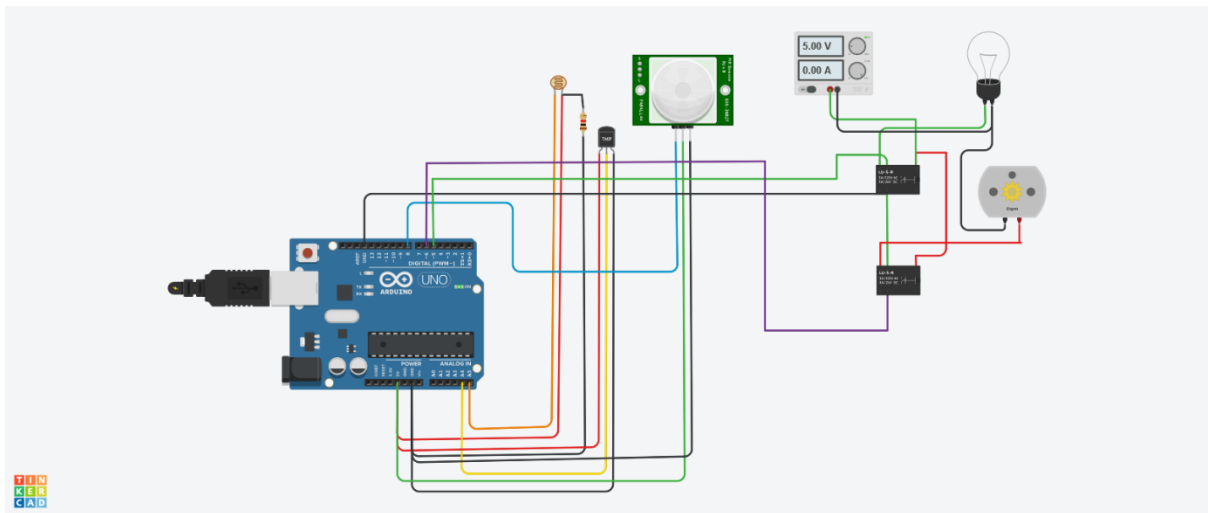
Assignment -1

Assignment Date	13 September 2022
Student Name	SHANMUGAPRIYA S
Student Roll Number	820419106052
Maximum Marks	2 Marks

Question-1:

Make a smart home with 2-3 sensors, LED, Buzzer. In single code and connection.

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);  
  }  
}
```