

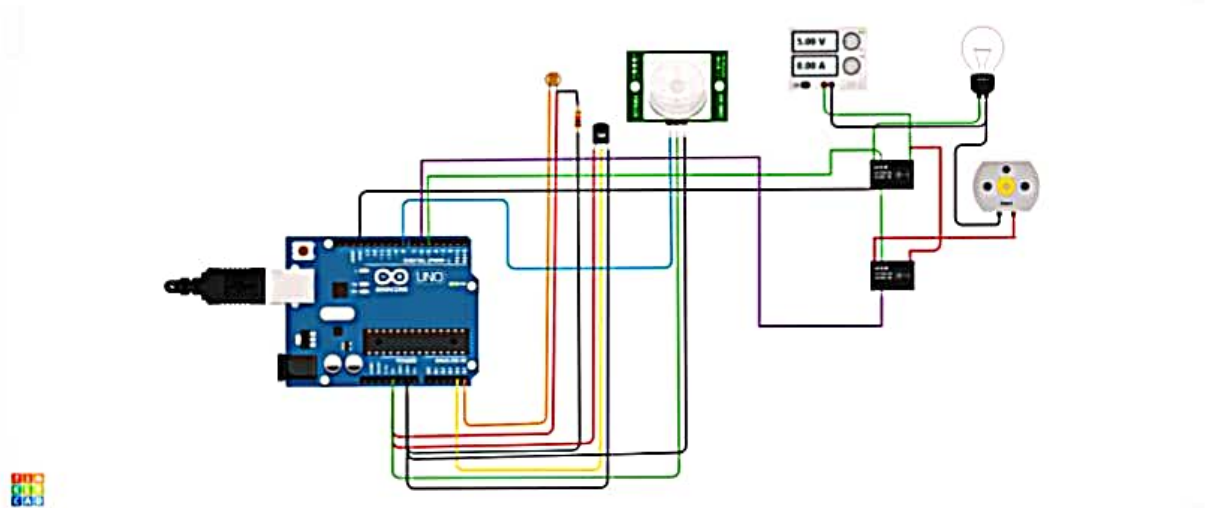
Assignment -1

Assignment Date	13 Nov 2022
Student Name	Sakthivel.M
Student Roll Number	723619106012
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);  
  }  
}
```