## Assignment -1

## **Home Automation**

Assignment Date	19 September 2022
Student Name	Ms.Nithiyashree.S
Student Roll Number	310619106093
Maximum Marks	2 Marks

## Question-1:

Home Automation using TinkerCAD (Minimum 2 sensors)

#### **Solution:**

```
#define LED 9
#define PIR 4
int ldr=0;
int pir=LOW;
int val;
void setup()
  Serial.begin(9600);
  pinMode(LED, OUTPUT);
  pinMode(PIR,INPUT);
}
void loop()
  ldr = analogRead(A1);
  val = map(ldr, 0,1023, 0,255);
  val = val - 255;
  pir = digitalRead(PIR);
  Serial.println(ldr);
  Serial.println(val);
  Serial.println(pir);
 if(pir==HIGH){
       analogWrite(LED,val);
       delay(250);
}
}
```

Link: <a href="https://www.tinkercad.com/things/cH72arjRDU1-light-on-based-on-ldr-and-pir-/editel">https://www.tinkercad.com/things/cH72arjRDU1-light-on-based-on-ldr-and-pir-/editel</a>

# Schematic:

