Assignment -1
Home Automation

Assignment Date	19 September 2022
Student Name	Mr. Meiyarasu V
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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:

Schematic: