Assignment -1

Home Automation

Assignment Date	19 September 2022
Student Name	Mr. karthik madhan
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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: https://www.tinkercad.com/things/cH72arjRDU1-light-on-based-on-ldr-and-pir-/editel

Schematic:

