ASSIGNMENT – 1

Team ID:	PNT2022TMID15172
Project Name:	Project: Smart Waste Management System For Metropolitan Cities

TEAM MEMBERS:

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Assignment 1:

Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.

Code:

```
int bulb = 13;
int bulb2 = 12;
int inputPir = 2;
int val = 0;
int photosensor;
int sensorLDR = A0;




void setup() {
  pinMode(bulb, OUTPUT);
  pinMode(bulb2, OUTPUT);
  pinMode(inputPir, INPUT);
```

```arduino
  pinMode(sensorLDR, INPUT);
  Serial.begin(9600);

}

void loop(){
  val = digitalRead(inputPir);
  photosensor = analogRead(sensorLDR);

  //1st Bulb
  if (photosensor<300)
    {
         if (val == HIGH) {
        digitalWrite(bulb, HIGH);
      Serial.println(photosensor);
                delay(100);
      }

    else
      {
       digitalWrite(bulb, LOW);
       delay(300);
      }
  }


  //2nd bulb

  else if(photosensor>300 && photosensor<600)
  {
    if (val == HIGH) {
        digitalWrite(bulb2, HIGH);
      Serial.println(photosensor);
              delay(100);
    }
```
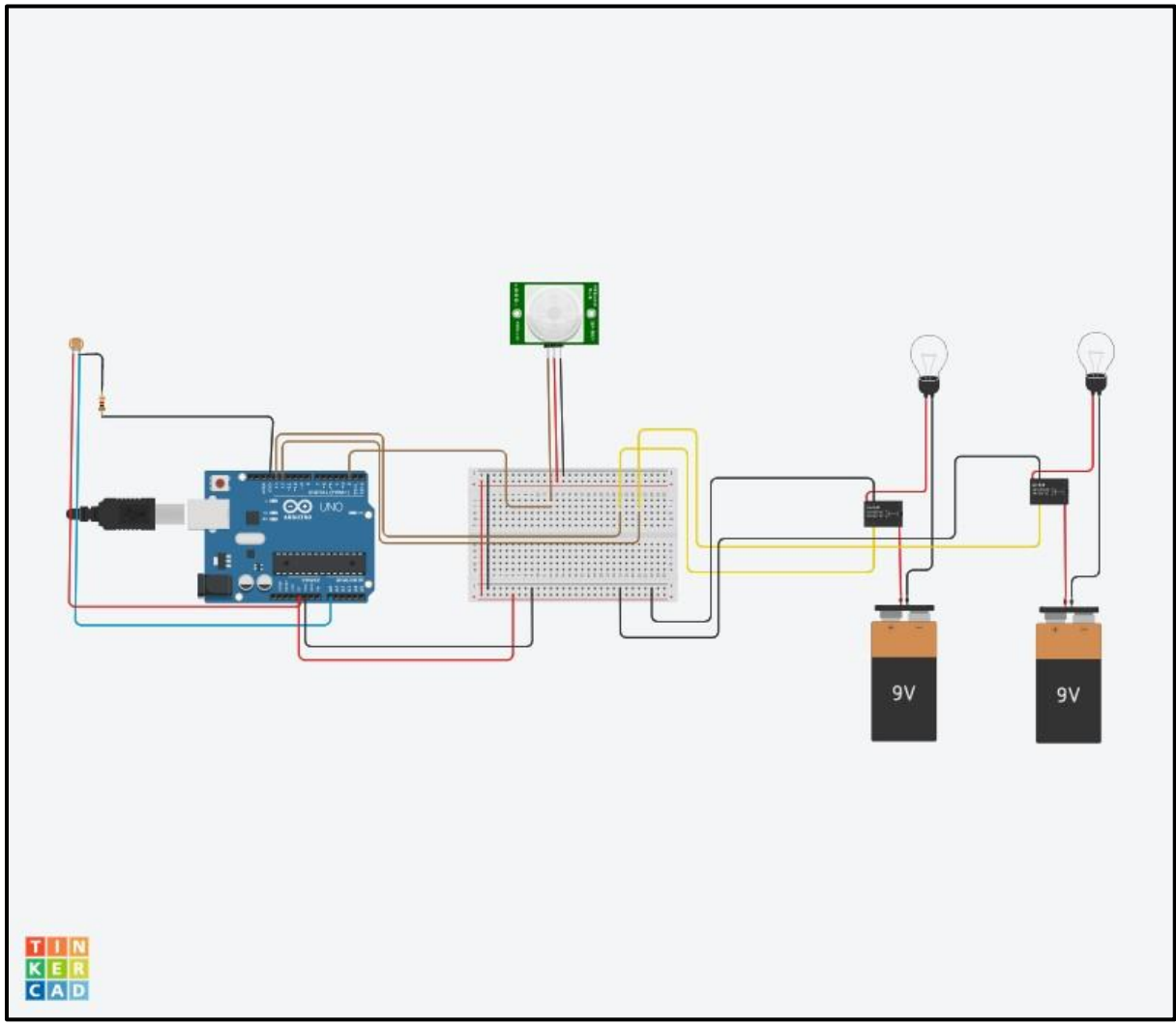
```
  else
  {
    digitalWrite(bulb2, LOW);
    delay(300);
   }


}



//1st bulb off
else{ digitalWrite(bulb,LOW);
Serial.println(photosensor);
delay(500);
}
}
```

ThinkerCad: Home Automation Room Lighting System:

Link-Home Automation Room Lighting System:

https://www.tinkercad.com/things/cg2ALhDViPw-brilliantsango-albar/editel?tenant=circuits