

## ASSIGNMENT NO:1

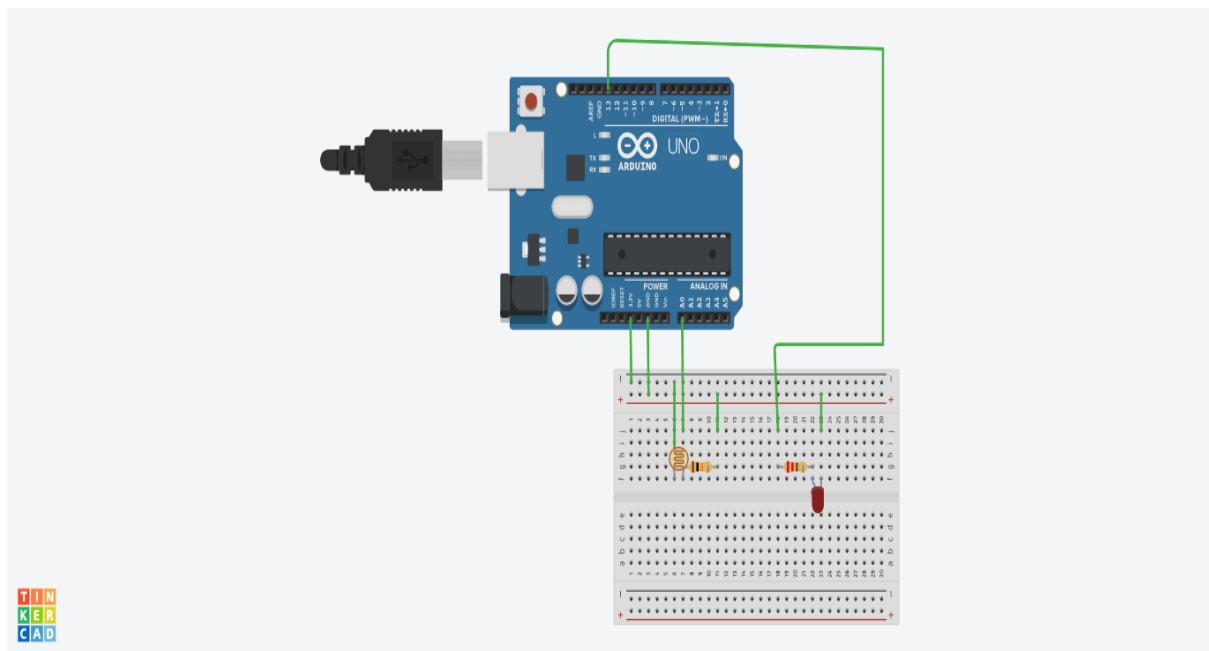
**TOPIC** : Make a Smart Home in Tinker cad, using 2+ sensors,  
LED, Buzzer in single code and circuit

**BATCH NO** :B3-3M5E

**TEAM ID** : PNT2022TMID33556

**TEAM MEMBER 2 : MATHIVANAN B**

### CIRCUIT DIAGRAM:



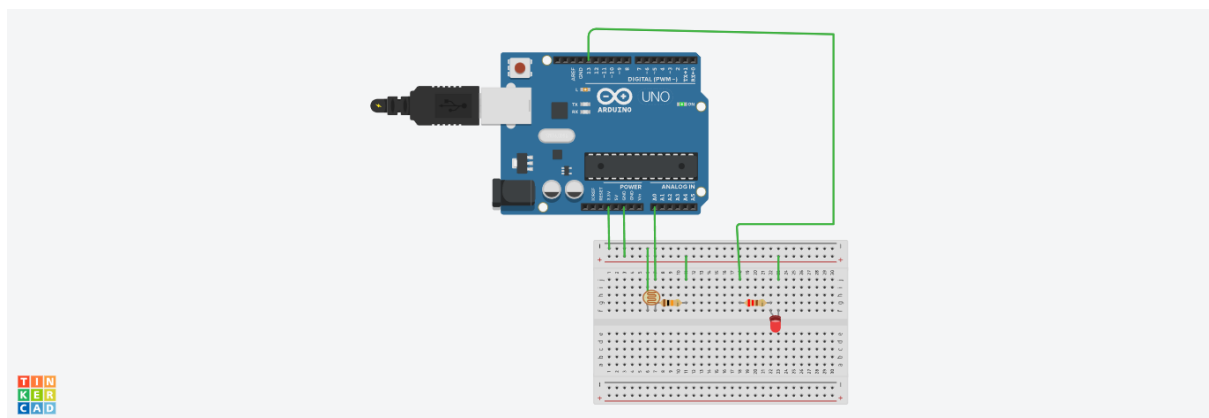
## CODE :

```
const int ledPin = 13;
const int ldrPin = A0;
void setup() {
  Serial.begin(9600);
  pinMode(ledPin, OUTPUT);
  pinMode(ldrPin, INPUT);
}

void loop() {
  int ldrStatus = analogRead(ldrPin);

  if (ldrStatus <= 400)
  {
    digitalWrite(ledPin, HIGH);
    Serial.print("Its Dark, Turn on the LED:");
    Serial.println(ldrStatus);
  }
  else
  {
    digitalWrite(ledPin, LOW);
    Serial.print("Its Bright, Turn off the LED:");
    Serial.println(ldrStatus);
  }
}
```

## AFTER SIMULATION:



**CONCLUSION:**

Here I designed the automatic light turn on circuit when the intensity of light decreases using Arduino UNO.