

ASSIGNMENT NO:1

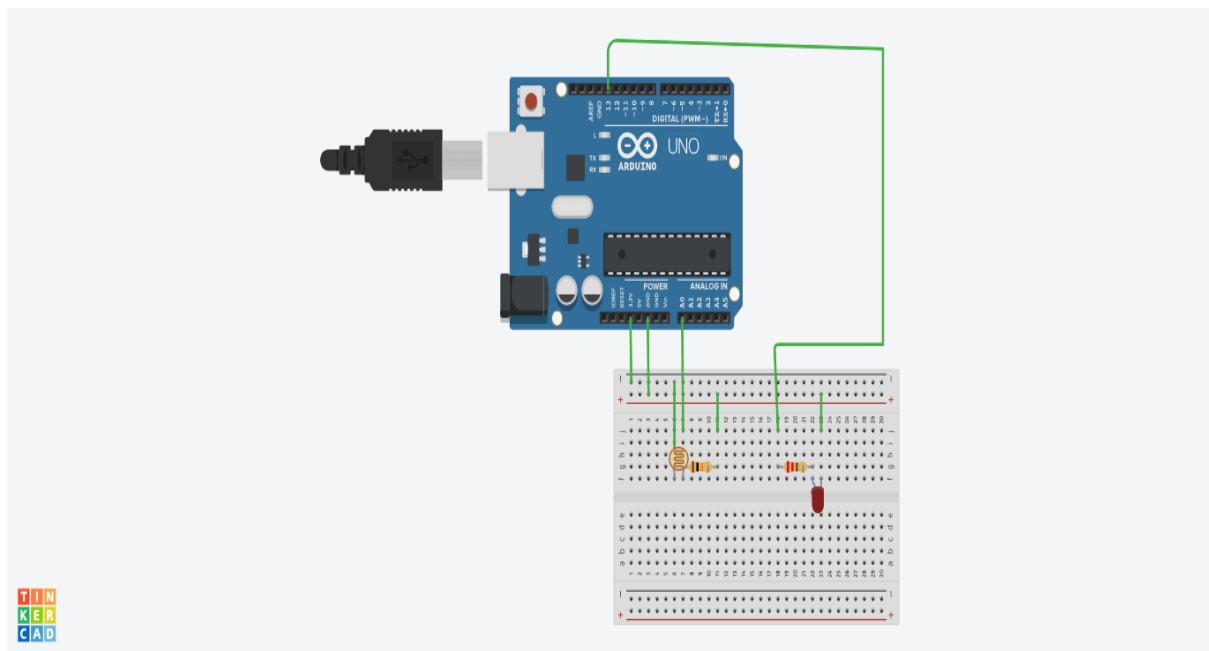
TOPIC : Make a Smart Home in Tinker cad, using 2+ sensors,
LED, Buzzer in single code and circuit

BATCH NO : B3-3M5E

TEAM ID : PNT2022TMID33556

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CIRCUIT DIAGRAM:



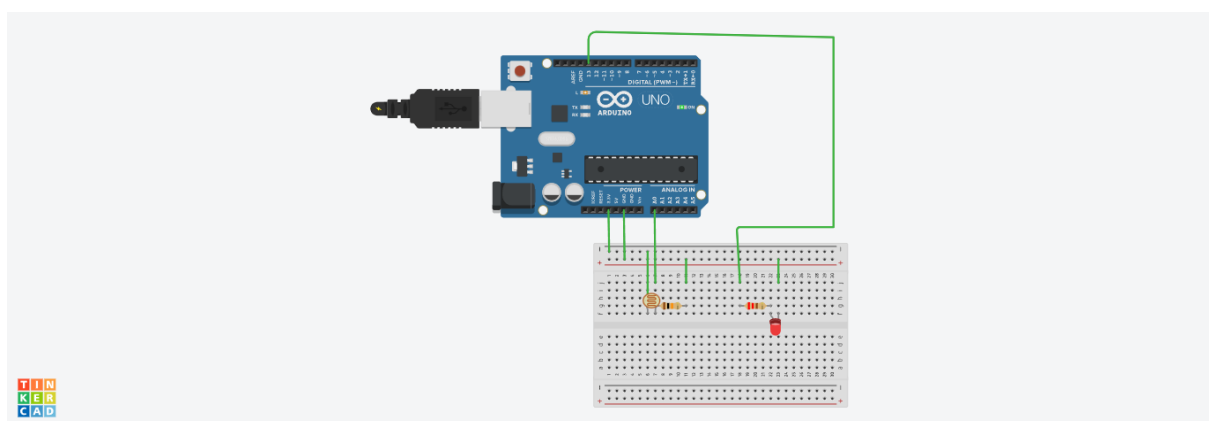
CODE :

```
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.