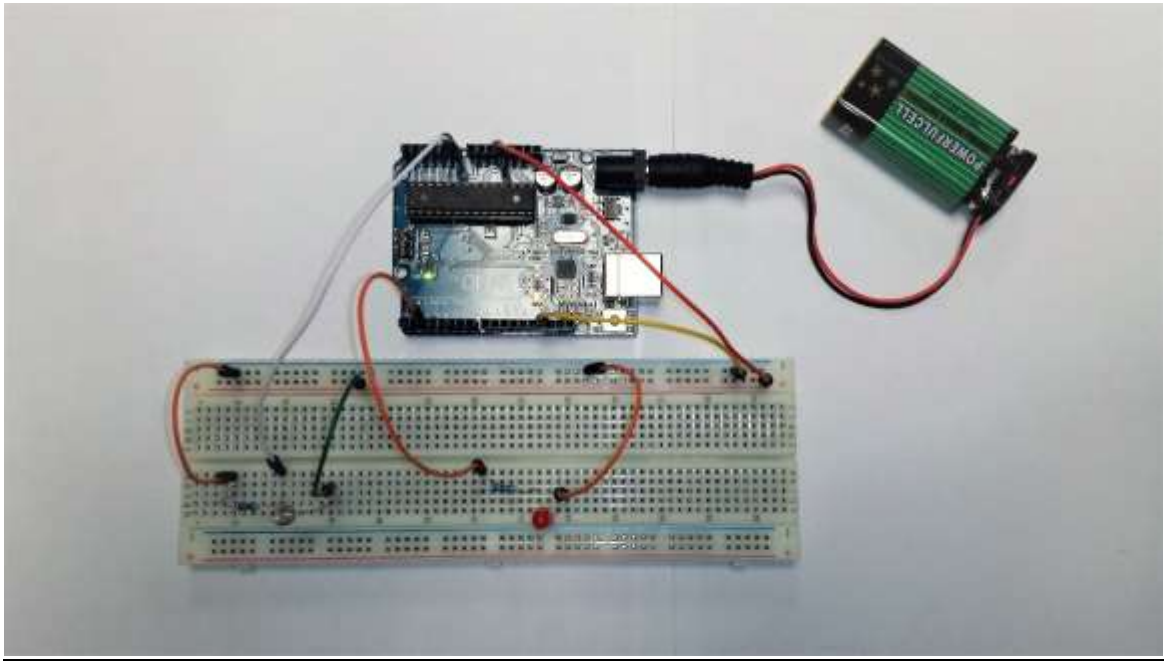
# Photoresistor Controlled LED Light (Night Light)

## Components:

- Arduino UNO Board
- Breadboard
- Red LED
- 330 ohms resistor
- Photoresistor
- 10K Resistor
- Jumper wires

### SETTING UP:



### Program:

```
// Pins

int sensorPin = 0;
```

```
int lightPin = 2;

// Variables
int lightState = 0;
int lowThreshold = 500;
int highThreshold = 600;

void setup() {

  // Start Serial & set pin to output
  Serial.begin(9600);
  pinMode(lightPin,OUTPUT);

}

void loop() {

  // Read the sensor pin
  int sensorValue = analogRead(sensorPin);

  // If light level is low is detected, switch light on
  if (sensorValue < lowThreshold){
    digitalWrite(lightPin, HIGH);
  }

  // If light level goes up again, switch the lights off
  if (sensorValue > highThreshold){
    digitalWrite(lightPin, LOW);
  }
}
```