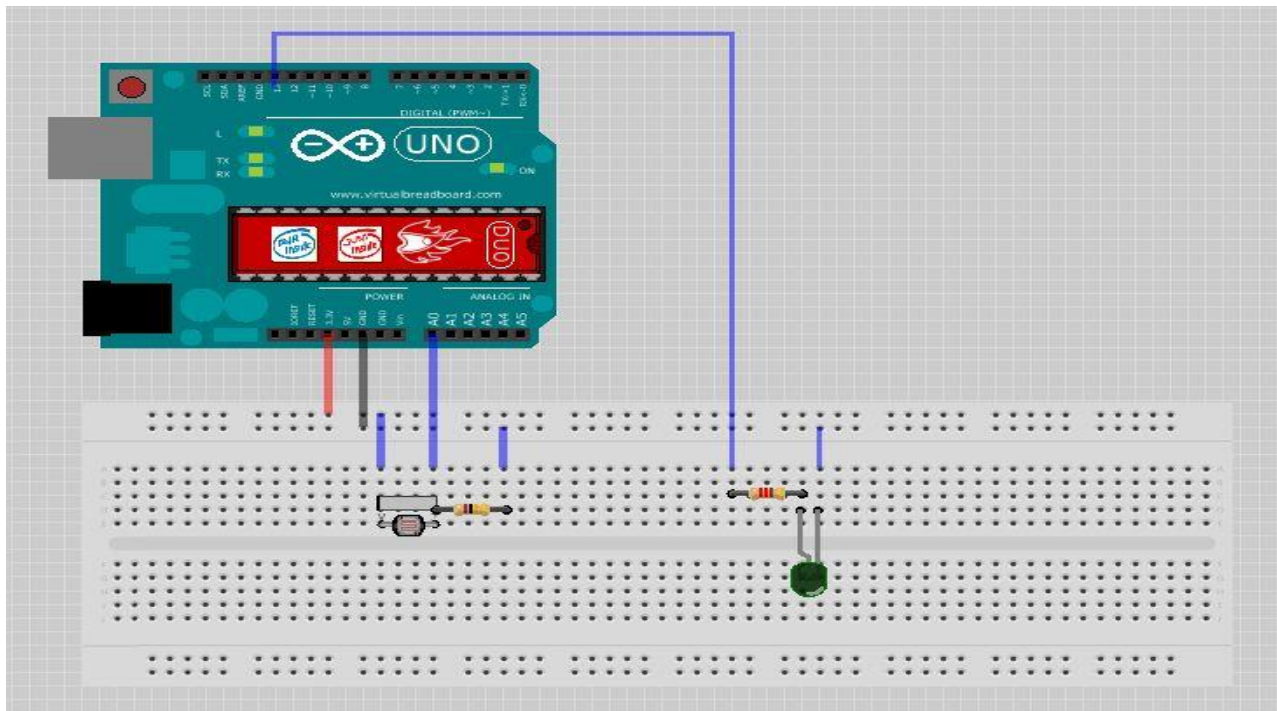


Requirements:

- a breadboard
- an arduino uno
- LED (Light Emitting Diode)
- LDR (Photoresistor)
- A 10K Resistor for LDR and a 220ohm resistor for the LED-The aim is to divide the voltage
- Few breadboard friendly connecting wires
- and a USB cable to upload the code to the Arduino

Schematic Diagram:



Paste the following code in Arduino IDE and Upload.

```
const int ledPin = 13; //you can change the connection pin of positive of LED other than 13
const int ldrPin = A0; //you can change the connection pin of negative of LDR other than A0
void setup() {
  Serial.begin(9600);
  pinMode(ledPin, OUTPUT);
  pinMode(ldrPin, INPUT);
}
void loop() {
  int ldrStatus = analogRead(ldrPin);
  if (ldrStatus <= 200) {
    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);  
}  
}
```