

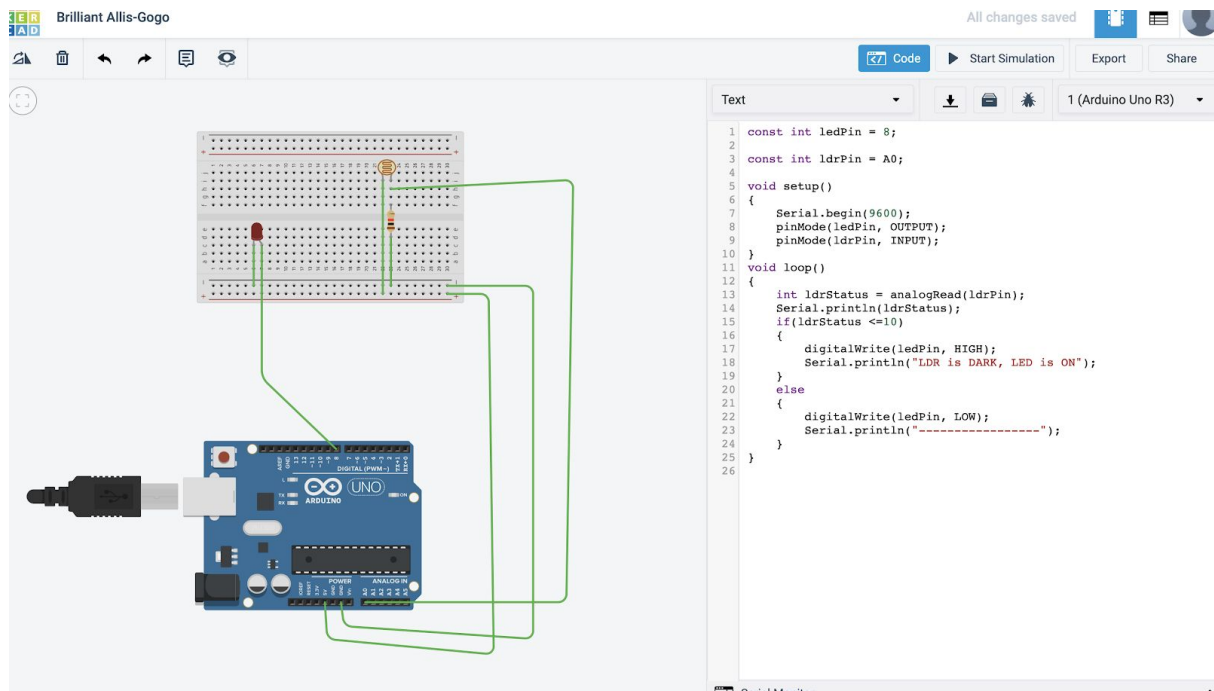
# IOT LAB

## Program Title – LIGHT DEPENDENT RESISTOR

**AIM – Demonstrate the working of LED using LDR Hardware Required -**

- Arduino Board
- LED
- Breadboard • Wires
- LDR
- Resistor

## Circuit Diagram -



## Code-

```
LPR

const int ledPin = 8;
const int ldrPin = A0;
void Setup()
{
    Serial.begin(9600);
    pinMode(ledPin, OUTPUT);
    pinMode(ldrPin, INPUT);
}
void loop()
{
    int ldrStatus = analogRead(ldrPin);
    Serial.println(ldrStatus);
    if (ldrStatus <= 10)
    {
        digitalWrite(ledPin, HIGH);
        Serial.println("LDR is Low, on");
    }
    else
    {
        digitalWrite(ledPin, LOW);
        Serial.println(" - - - ");
    }
}
```

## Observation /Output -

The working ldr and led intensity is observed.