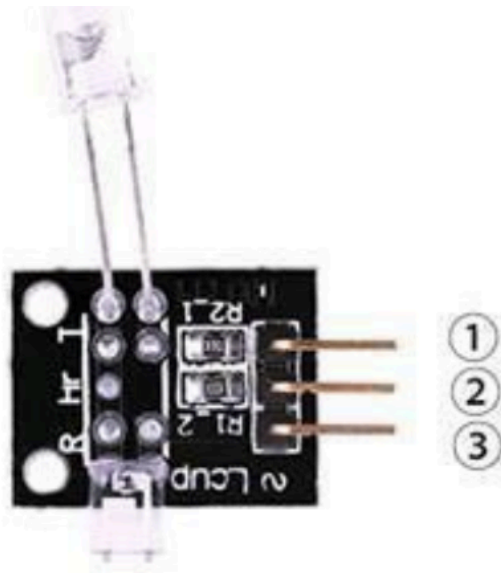# Principles

- The LED is the light side of the finger, and photo transistor on the other side of the finger, phototransistor used to obtain the flux emitted, when the blood pressure pulse by the finger when the resistance of the photo transistor will be slightly changed.
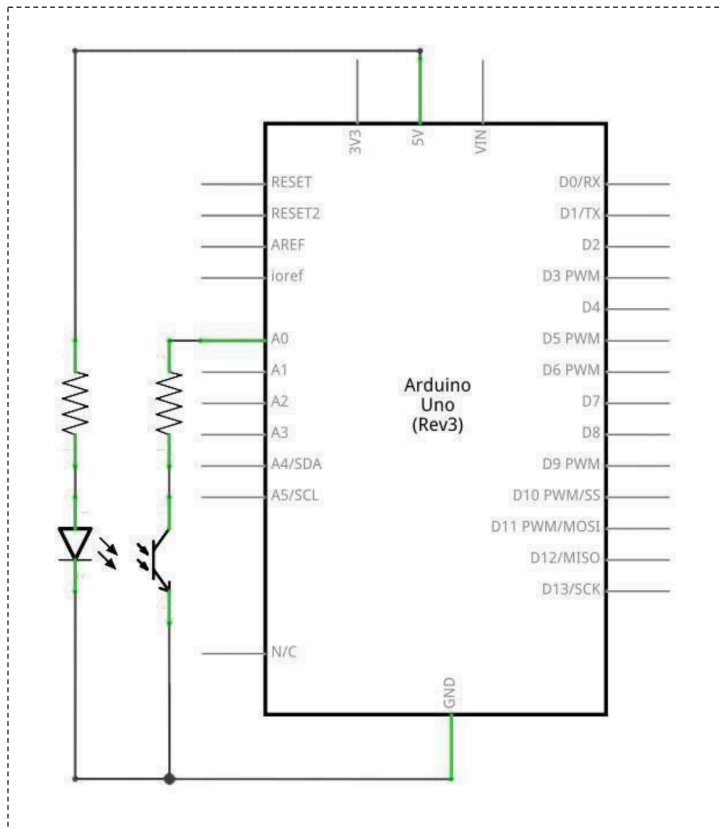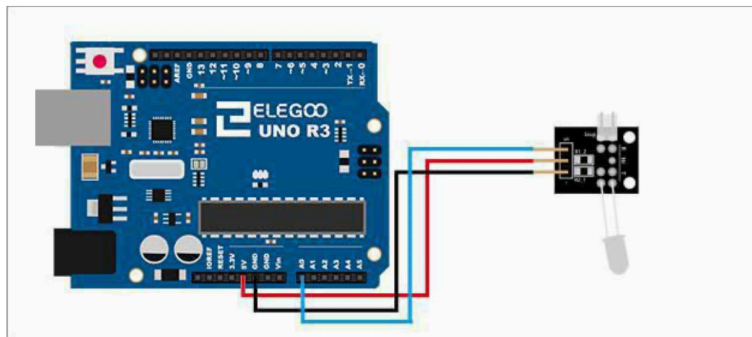
# Module



1.GND:ground
2.VCC: 3.3V-5V DC
3.OUTPUT

# Schematic

**Schematic**



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**Wiring diagram**



# Software

```
int rawValue = analogRead (sensorPin);
double value = alpha * oldValue + (1 - alpha) * rawValue;
oldValue = value;
```

New value is computed from old (previous) value and input from the LED.