

INTERNET OF THINGS

**TITLE:SMART STREET
LIGHT**

PROJECT REVIEW

GROUP MEMBERS

1.SWETHA.P
22BCA0066

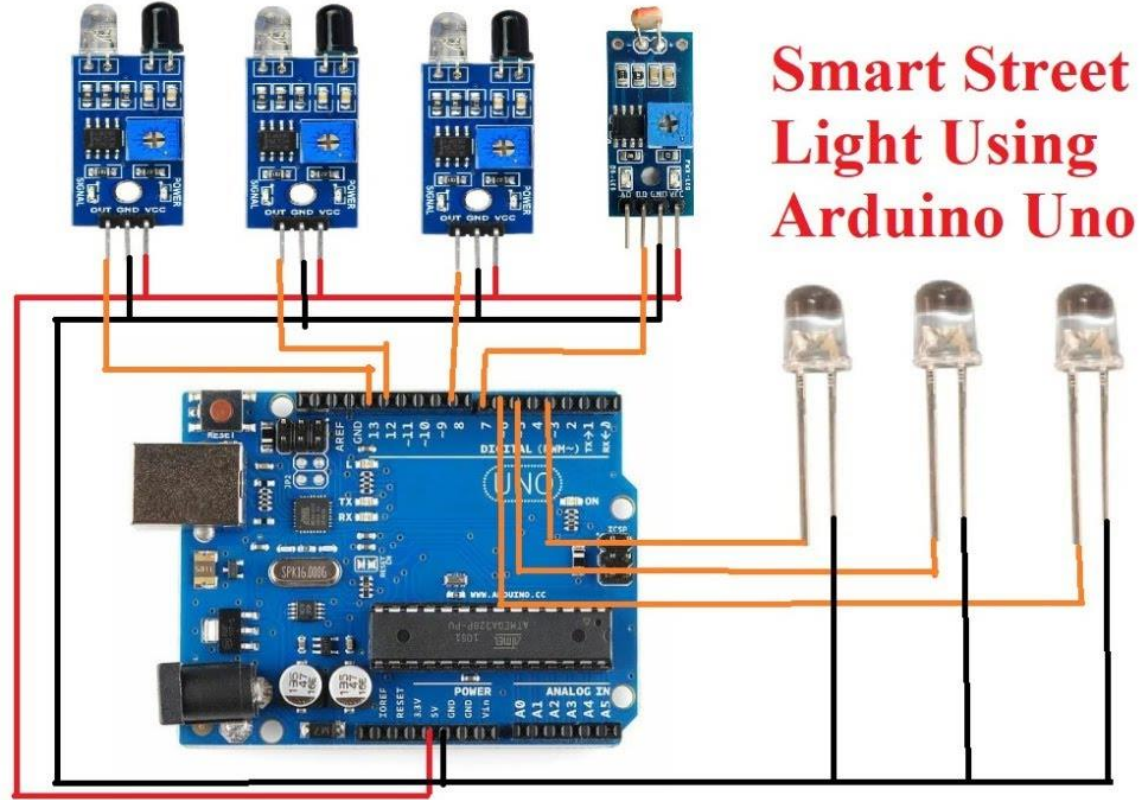
-

2.RATHISHA.R
22BCA0068

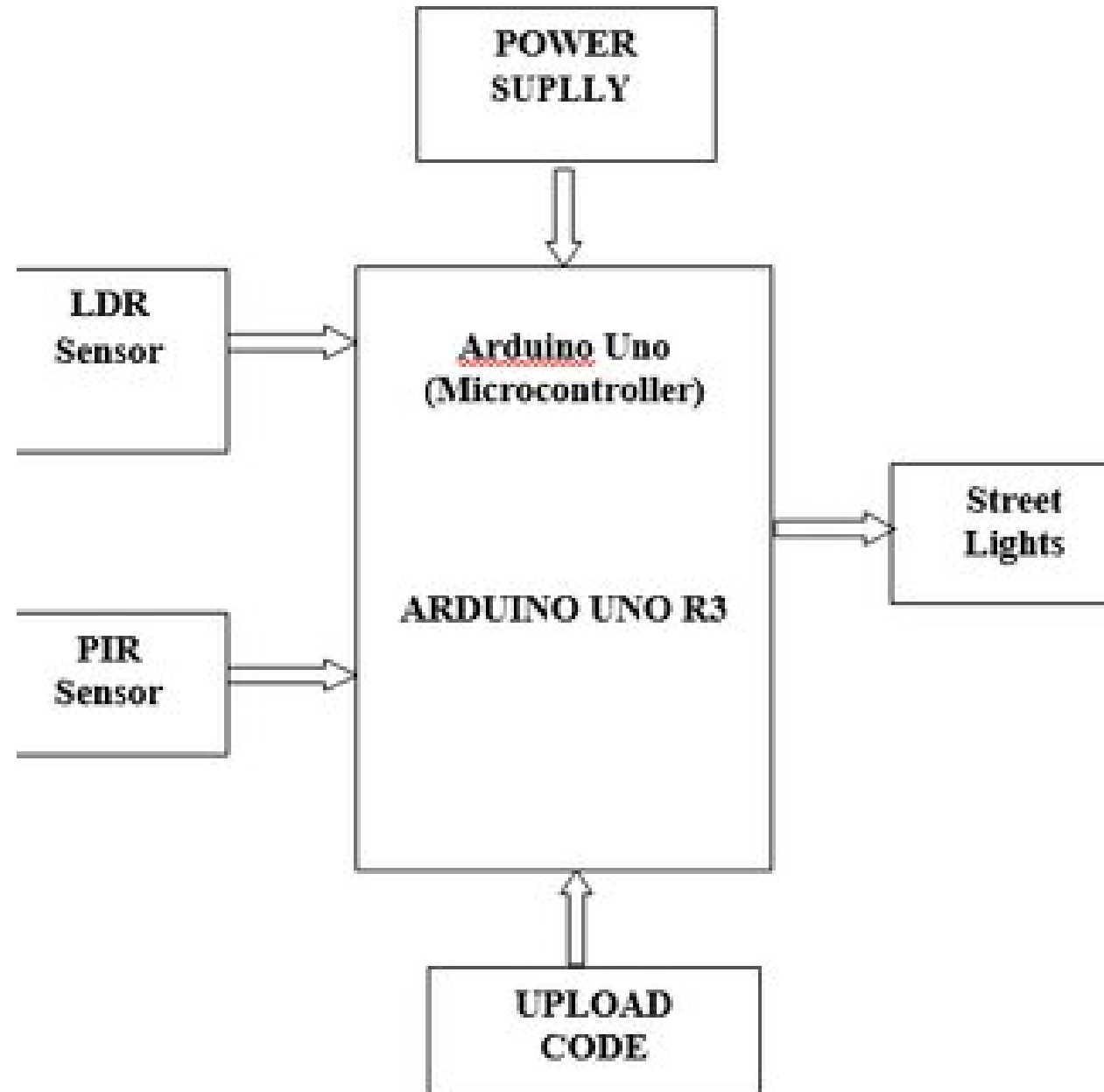
-

3.HEMA KALAI SELVI.G -
22BCA0223

ARCHITECTURE OF SMART STREET LIGHT



CIRCUIT DIAGRAM OF SMART STREET LIGHT

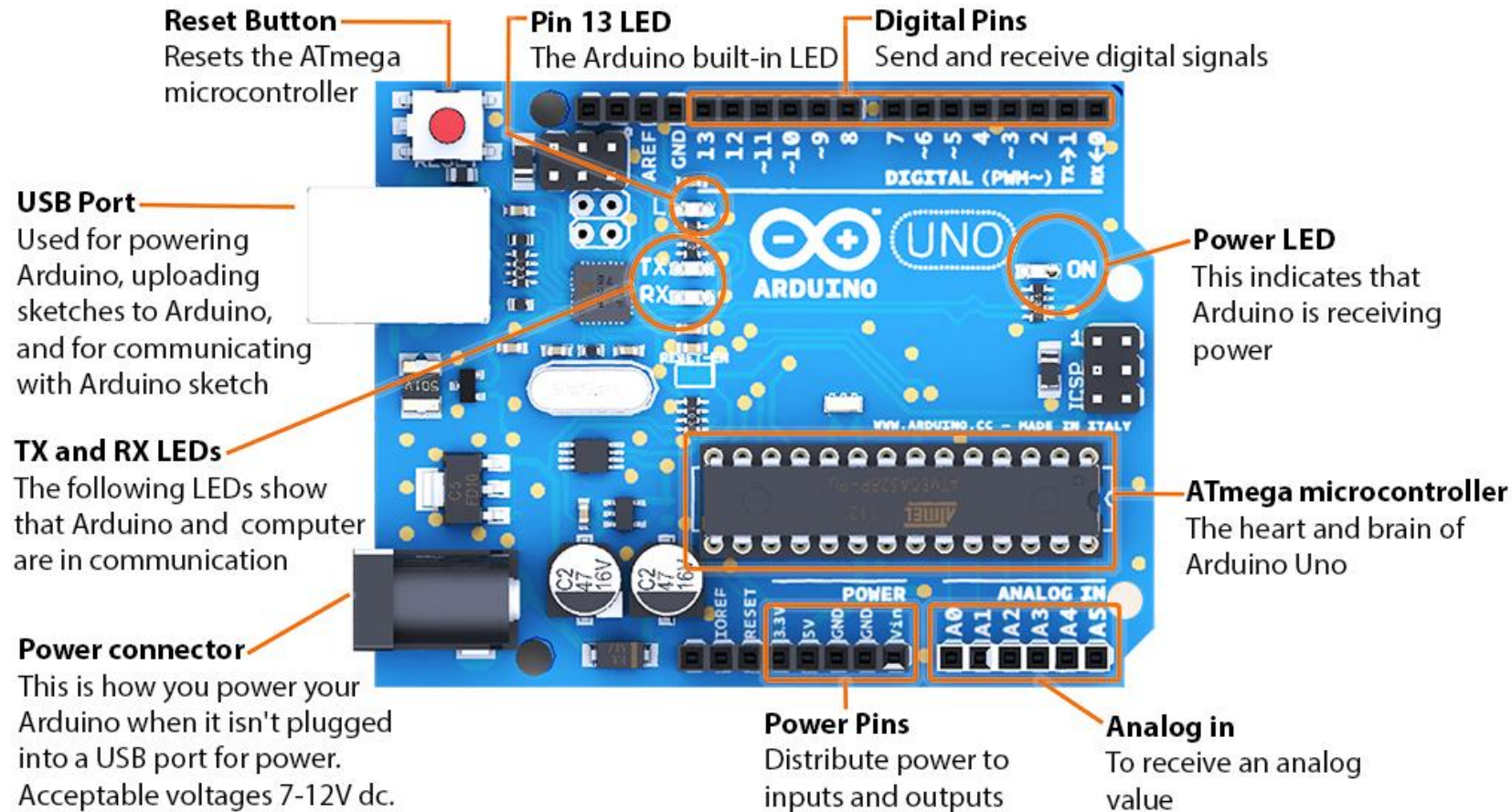


COMPONENTS USED

1. ARDUINO UNO

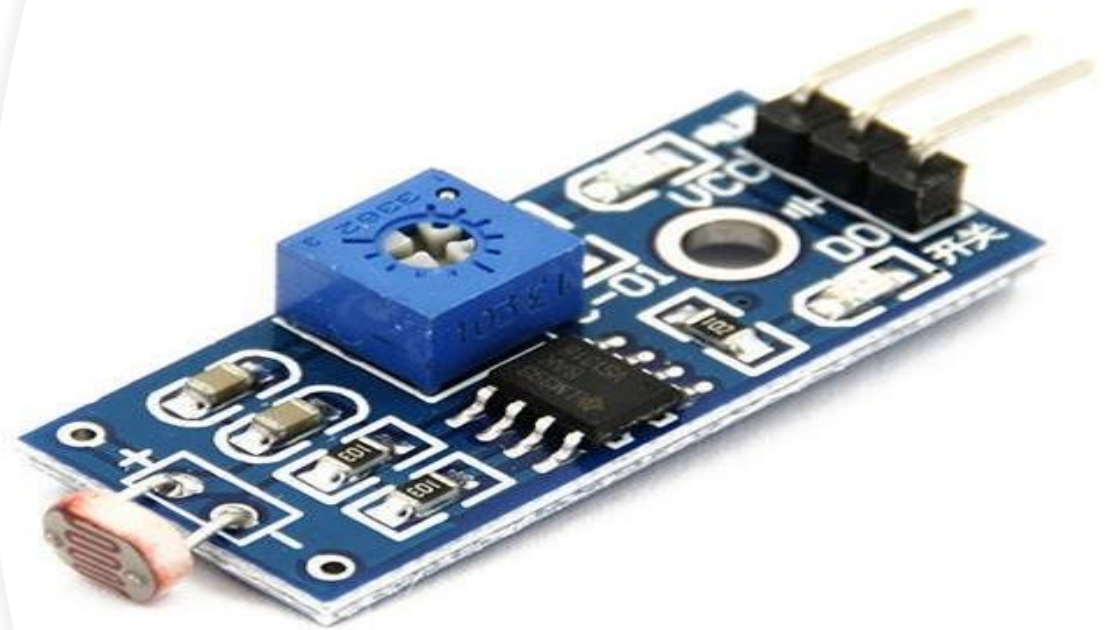
Arduino is widely used in IoT applications for collecting sensor data, processing it, and transmitting it to the cloud for analysis and control, enabling the development of smart and connected devices and systems.

ARDUINO UNO



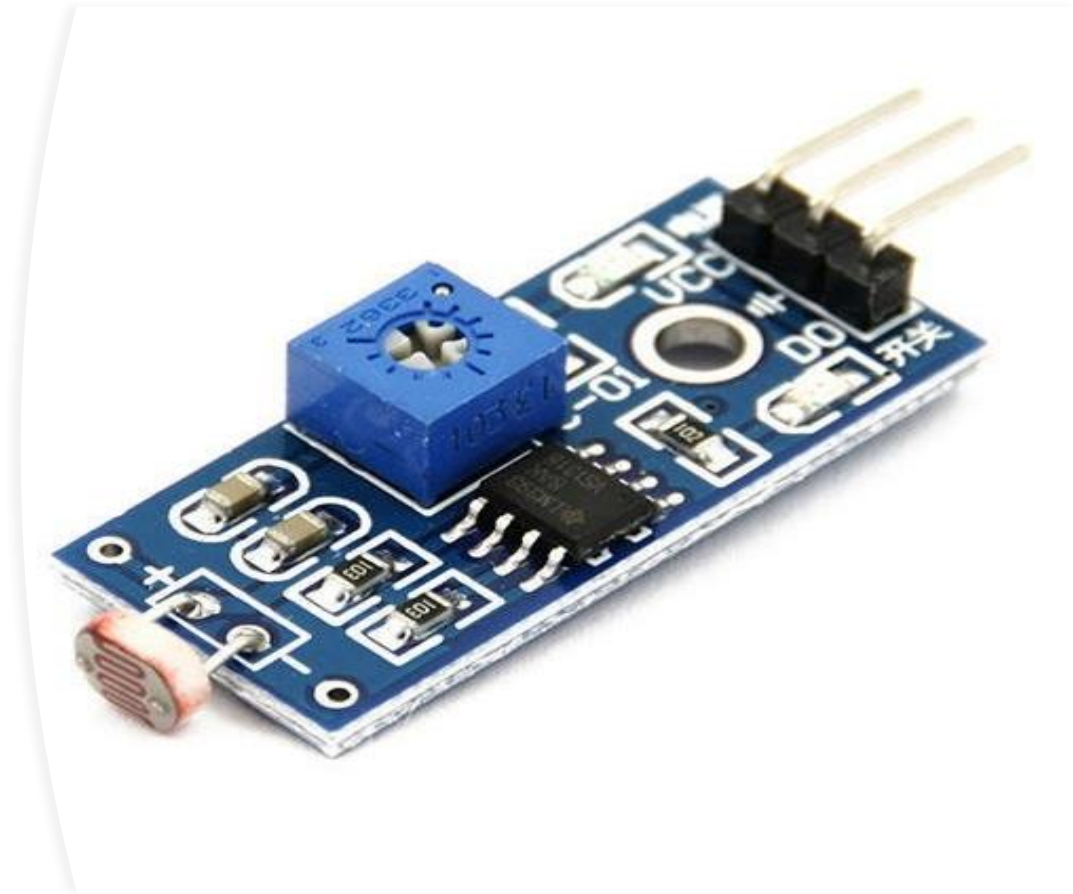
2.LDR SENSOR

- Light-dependent resistor
- Detects ambient light
- Converts light to resistance
- Low-cost sensing
- Detects absence/presence



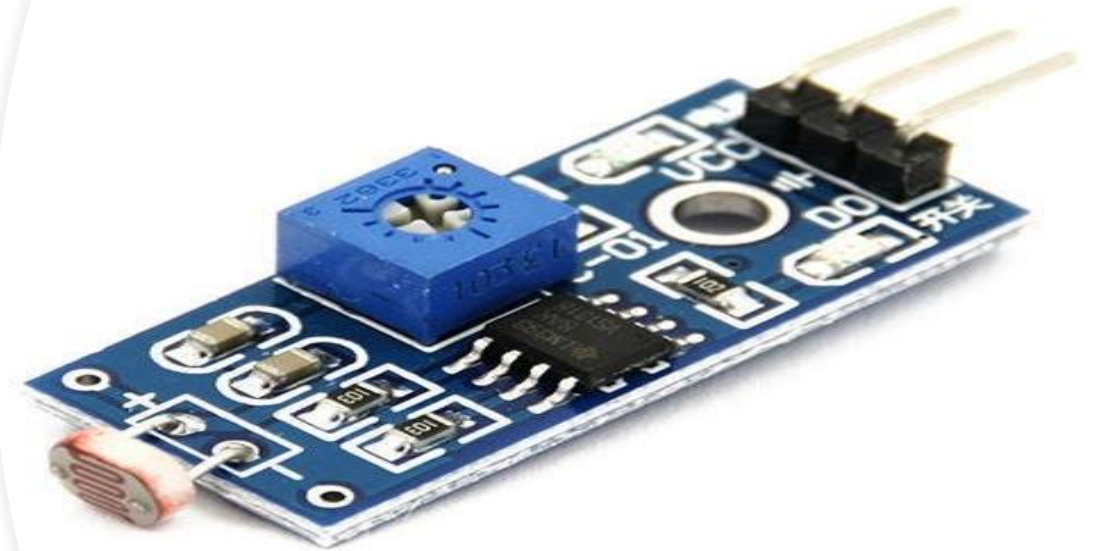
APPLICATIONS OF LDR SENSOR

- Smart Home Lighting
- Ambient Light Control
- Traffic Signal Control
- Streetlight Automation
- Solar Tracking Systems
- Environmental Monitoring



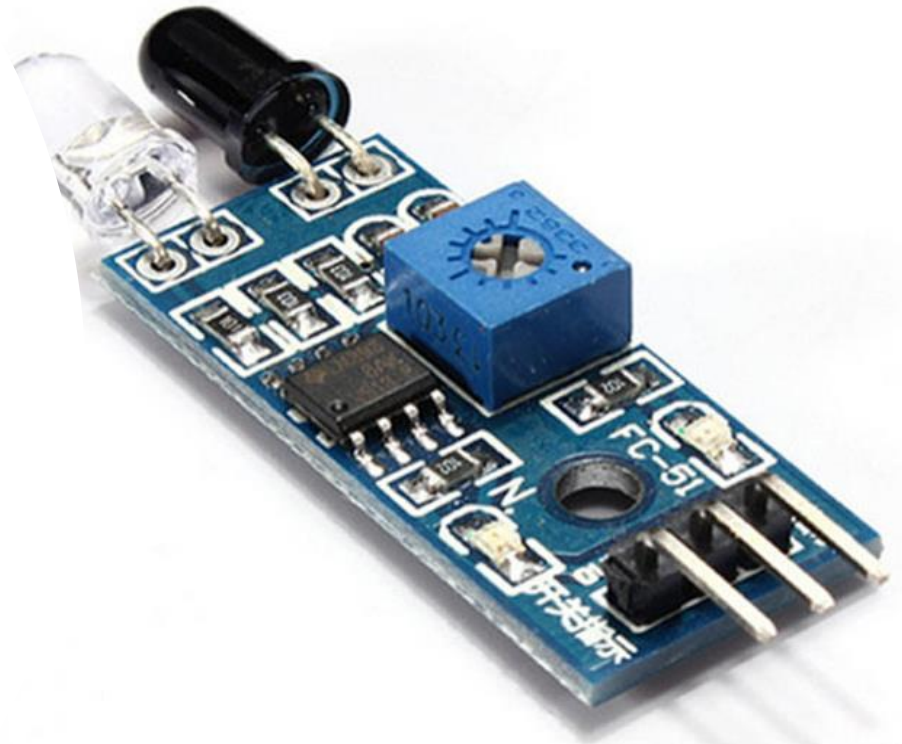
ADVANTAGES OF LDR SENSOR

- Long-Distance Detection
- Wide Detection Range
- Low maintenance
- Cost-Effective
- Quick Response Time
- Easy Integration



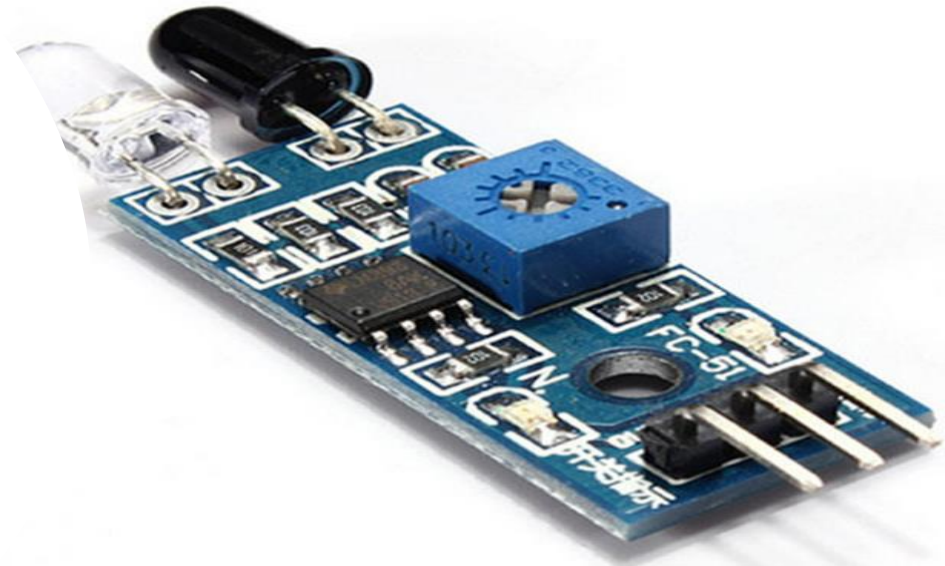
3.INFRARED(IR) SENSOR

- An electronic device, that emits the light in order to sense some object of the surroundings.
- An IR sensor can measure the heat of an object as well as detects the motion.



APPLICATIONS OF IR SENSOR

- Temperature Measurement
- Distance Measurement
- Proximity Sensing
- Motion Detection



ADVANTAGE OF IR SENSORS



IR(LIGHT DEPENDENT RESISTOR)

