AUTOMATIC STREET LIGHTS USING ARDUINO

ENGINEERING FUNDAMENTALS(PROJECT)
BY CSE-A

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OBJECTIVE OF THE PROJECT

1. To minimize the cost & loss of electricity and also man power to manually on- off the **street light.**

2. The main objective is automatic street power saving system with LDR(LIGHT DEPENDENT RESISTOR),this is to save power.

3. The main consideration in the present field technologies are automatic , power consumption and cost efficiency.
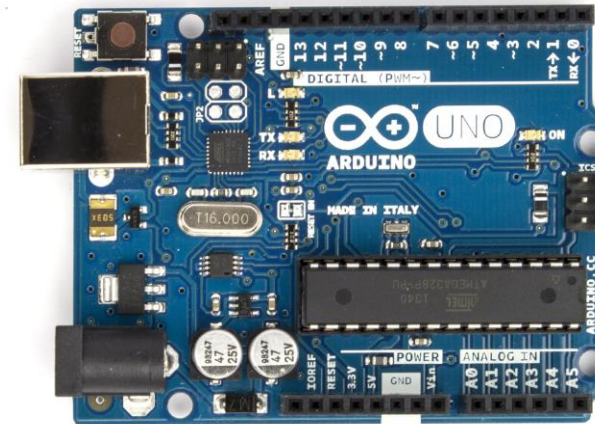
Introduction of the Project

- The Street lights are the major requirements in today's life for safety purposes and avoiding accidents during night. Providing street lighting is one of the most important and expensive responsibilities of a city.

- By using this system manual works are removed. The street lights are automatically switched ON when the sunlight goes below the visible region of our eyes and when the object passes through road. It automatically switches OFF the street lights under illumination by sunlight and after passing the object.

APPARATUS

- **Components**
- 1. Arduino Uno Kit
- 2. LDR's
- 3. LEDs of operating voltage 5V
- 4. Resistors of 2k ohm
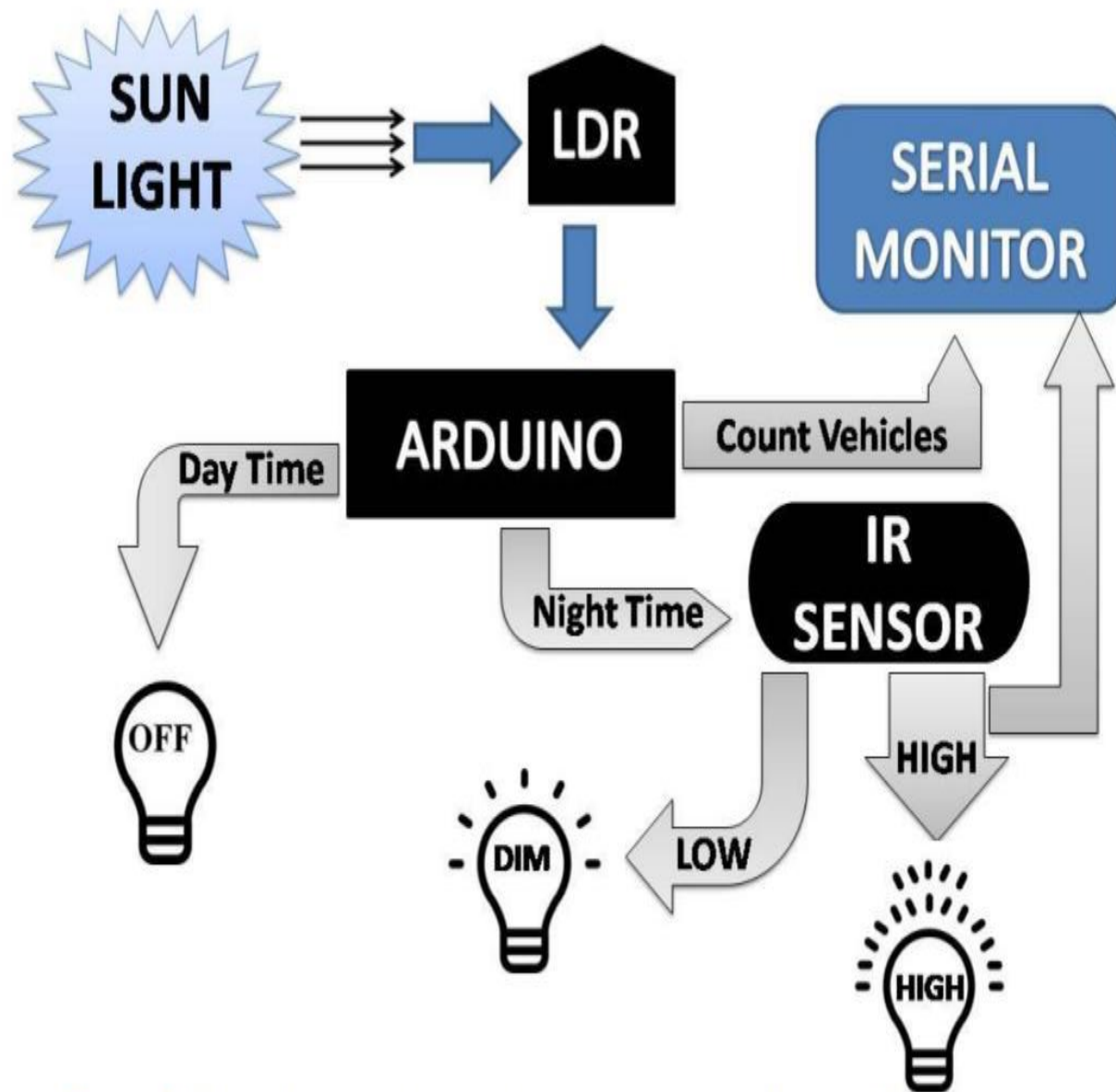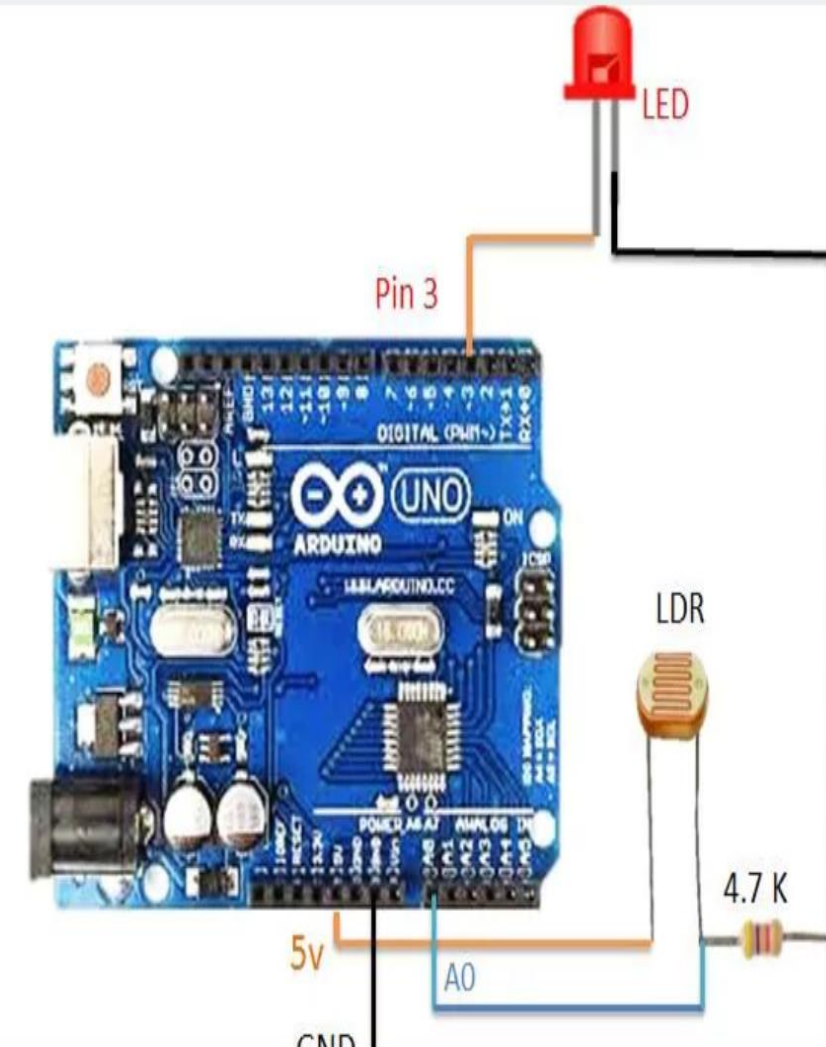- 5.Jumper Wires

Figure 1. The architecture design of automatic street light control system.

Advantages:

- There are lower chances of the automatic street light system overheating & risk of accidents is also minimized.
- **Cost** of operating automatic solar street lights is far less when compared to the conventional street lights.
- Automatic street light system is eco-friendly & hence helps in reducing the carbon footprint

Disadvantages:

- **Automatic street light** system requires higher initial investment in comparison to conventional **street lights**. ... Risk of theft of the **automatic street light** system is relatively higher since they are non-wired & are much expensive.