



About Project

It senses the light intensity from surroundings and find whether its day or night. And it automatically turns ON when the surrounding is dark and it turns OFF when it receives light from surroundings. A sensor called **LDR**, which is used to detect the light intensity.



Light Dependent Resistor [LI Sensor

An LDR is a component that has a (variable) reschanges with the light intensity that falls upon it. them to be used in light sensing circuits Dependent Resistor (LDR) or a photo resistor whose resistivity is a function of the incident electradiation. Hence, they are light sensitive devices. They are also called as photo conductors, photo conductive cells or simply photocells.



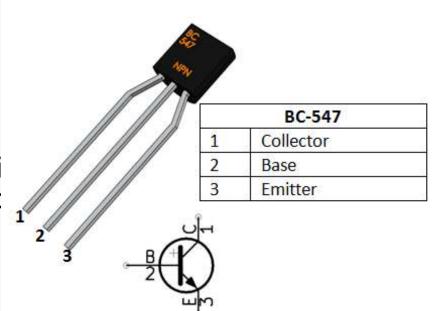
Working of LDR sensor

- We will use a LDR and a resistor together in series. An LDR is simply a device that changes resistance based on ambient light. The brighter the light, the lower the resistance, the dimmer the light, the higher the resistance.
- When there is no light, LDR will offer high www.ablkart.60m



BC547

BC547 is a NPN and emitter will when the base piclosed (Forward between to base pin.



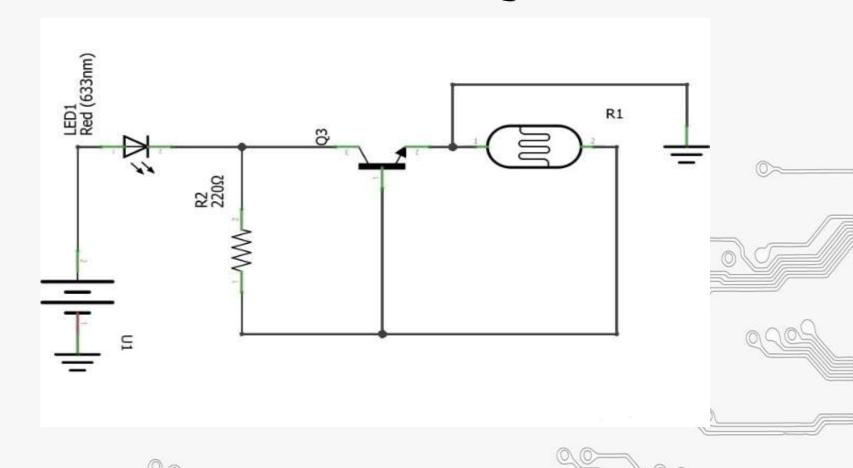


Components Required

- Zero PCB
- Soldering machine
- Soldering wire
- LDR [1]
- BC547 Transistor [1]
- LED [1]
- Resistor2200hm*1
- Battery 9v
- Battery connector



Connection Diagram





Future Scope

Automatic street light system have the various advantages. These makes the work easier so you don't have require the labor force because as the name indicate it is automatic. These are reliable lights for streets and effective one. Whenever you want these can be converted from auto to manual mode easily.



Project Link: https://youtu.be/rTD9n20815M