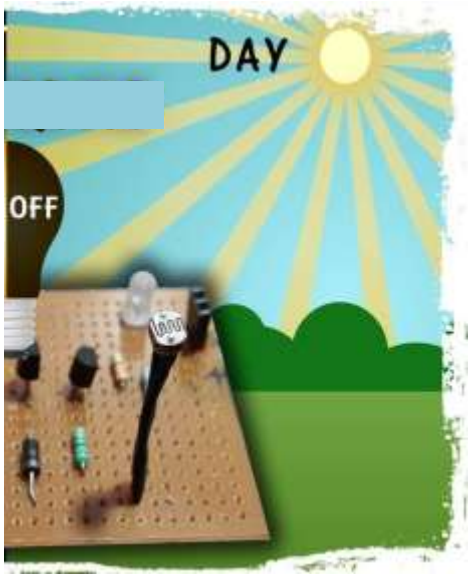
Department of Scientific and Industrial Research

Smart Management of Street lights for Energy Conservation

Team Leader : Ishwarya S
Technology Bucket : Miscellaneous
College Code : 3122

OBJECTIVES

1. To sense whether it is a day(6 A.M. – 6 P.M.) or night (6 P.M. -6 A.M.). If it is day then the street lights are turned OFF automatically .

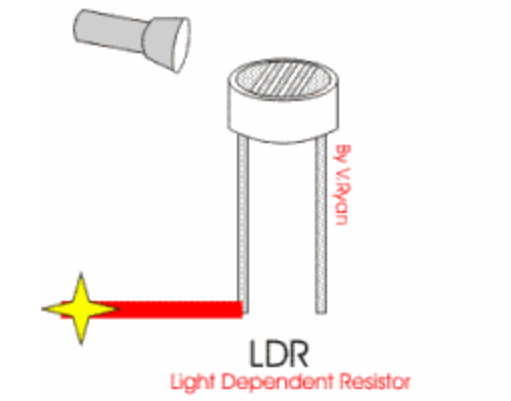


2. To sense the motion of vehicles or pedestrian in order to switch ON the nearby street lights.

Our Idea!!!

1. LDR(Light Dependent Resister)

It allows the arduino Uno to work only during night. So that the energy is conserved during day time

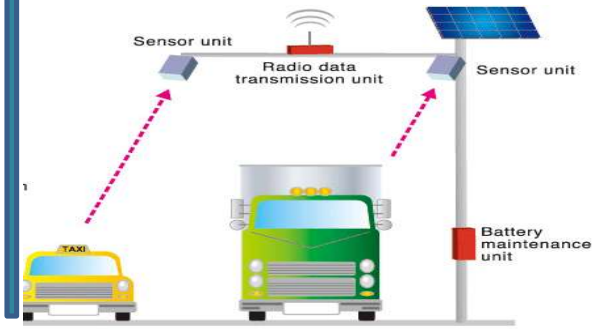


2. Motion Sensors(PIR and IR sensor)

PIR(Passive Infrared Sensor) detects the motion of pedestrian .

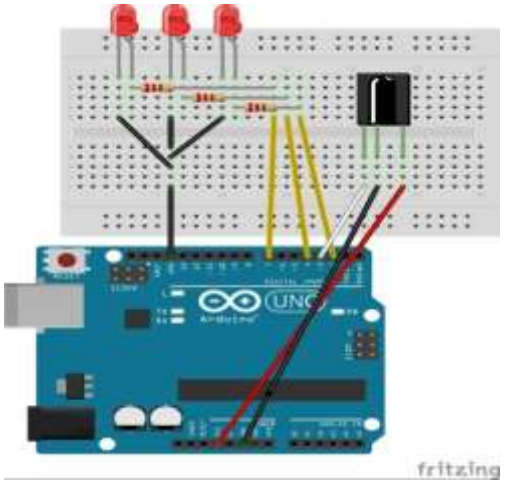
IR(Infrared Sensor) detects the motion of vehicles.

Both the sensor sends the response to arduino Uno if they detects.

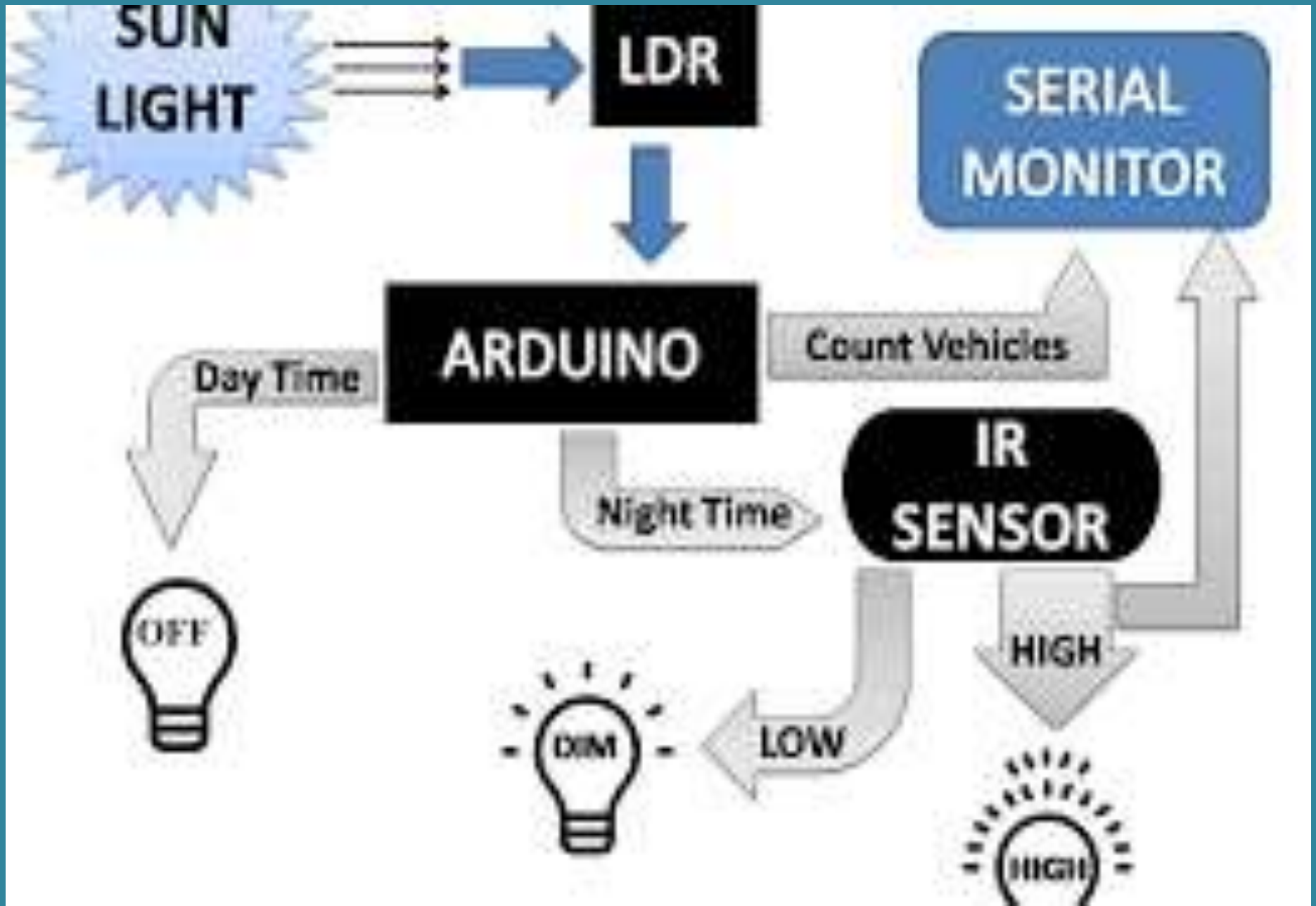


3. Arduino Uno

Based on the response from the motion sensors this device controls the working of street lights.



HOW IT WORKS


SUN LIGHT
LDR
SERIAL MONITOR
ARDUINO
Count Vehicles
Day Time
Night Time
IR SENSOR
OFF
DIM
LOW
HIGH
HIGH

BENEFITS OF SMART STREET LIGHT