

## IMPLEMENTATION

### IMPLEMENTATION ENVIRONMENT

It can be used at a time for a group for street lights and provided that street lights are internally connected and are a part of the circuit.

### CODING STANDARDS

Coding convention are guidelines for programming .the main points that are covered are:

- Declaration and naming pattern and rules for giving name to function and variables
- How spacing and comments are placed in a program

#### Benefits of coding conventions

Maintenance is easier

Modification is easier

Increases code reliability

Helps to guide across the program.

### CODE

```
// Background Light (the brightest it will be)

int LDRMax;          // When LDR is value returned (depends on the
                    // resistor in line with the LDR (I used a 4.7K)
int LDRMin = 50;     // Ratio of range to 255 (max analog out reading)
float LDRRatio;      // Analog Pin for reading LDR
int LDRPin = A1;     // The Value read for the LDR
int LDRValue;
                    // PWM Pin for the LED
int ledPin = 6;
void setup() {
  pinMode(ledPin, OUTPUT);    // Inititalize LED Pin
  serial.begin(9600);         // Enable Serial Communication -
  useful for debugging
  LDRMax = analogRead(LDRPin);
  // Get the maximum LDR Reading
  Serial.print("LDRMax: ");
  Serial.println(LDRMax);
```