Aim :

Design a system with 5 poles for Highway Lighting such that whenever a car crosses through a pole, the LED installed on it starts blinking (only during night) at a rate twice that of previous pole.

Apparatus :

Breadboard, LED, LDR, Switch, Arduino UNO, Resistor.

Code :

int l = A0;

int sensorValue=0;

void setup()

{

Serial.begin(9600);

pinMode(12, OUTPUT);

}

void loop()

{

sensorValue=analogRead(l);

Serial.println(sensorValue);

delay(100);

if (sensorValue>50)

{

digitalWrite(12,HIGH);

delay(500);

digitalWrite(12,LOW);

delay(500);

}

else

if (sensorValue<50)

{

digitalWrite(12,HIGH);

delay(100);

digitalWrite(12,LOW);

delay(100);

}

}

Precautions :

Components should be checked before use.

Connections should be proper and tight.

Sources of error :

Connections may be loose.