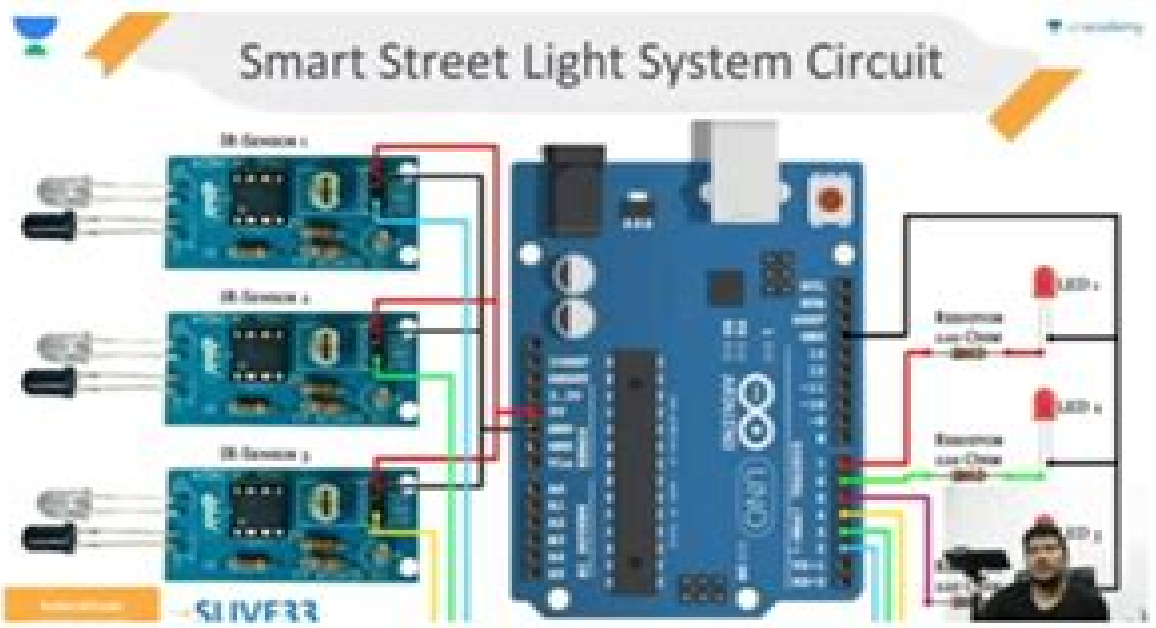

A. Components Required:

1) Arduino board (e.g., Arduino Uno)
2) IR sensor module (e.g., IR proximity sensor)
3) Relay module
4) Street light or LED module
5) Connecting wires

B. Circuit Connections:

1) Connect the VCC pin of the IR sensor to the 5V pin on the Arduino.
2) Connect the GND (ground) pin of the IR sensor to the GND pin on the Arduino.
3) Connect the OUT pin of the IR sensor to a digital pin (e.g., pin 2) on the Arduino.
4) Connect the VCC pin of the relay module to the 5V pin on the Arduino.
5) Connect the GND pin of the relay module to the GND pin on the Arduino.
6) Connect the IN pin of the relay module to a digital pin (e.g., pin 3) on the Arduino.
7) Connect the relay module's COM (common) pin to the positive terminal of the street light or LED module.
8) Connect the relay module's NO (normally open) pin to the negative terminal of the street light or LED module.
9) Upload the code to the Arduino board using the Arduino IDE or any compatible software.
10) Upload the code to the Arduino board using the Arduino IDE or any compatible software.

Automatic Street Light Control System Using Microcontroller

Huangqi Zhang

Automatic Street Light Control System Using Microcontroller:

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