**Project Name:** Bidirectional Visitor Counter with Automatic Light Control using Arduino.

**Purpose:** In this **project**, we will make a Bidirectional Visitor Counter with an Automatic Light Control System using **Arduino**. This **project** is based on a pair of **Infrared Sensor** that detects interrupt when it detects an obstacle. The pair of **IR sensors** can detect the visitor from both directions, i.e. the number of entering visitors and the number of exiting visitors.

This Arduino Bidirectional Visitor Counter **Project** can be used to count the number of persons entering a hall, Shopping mall, office, functions in the entrance gate. It can also be used at gates of parking areas and other public places. The device counts the total number of people entering through the gate and also the total number of people leaving through the same gate. And finally, it counts the total number of people currently present inside the room. When no people are inside the room, i.e. the total number of people is zero then the room light is **turned off**. When even a single person is found inside the room, the light **turns on**. The light control system is automatic based on the visitor's presence.

**Required Components:**

* Arduino UNO
* IR Sensors
* Relay Module
* Potentiometer or resistor
* Breadboard
* Jumpers
* OLED Display/16x2 LCD Display

@**Harun**

**Working Procedure……………………………….(1)**

**Step name: Status:**

R&D……………………………………………Done

Documentation………………………………....Done

Component Arrangement………………………Done

Circuit Diagram………………………………...Done

Devices setup……………………………………Working On

Script Writing…………………………………..Not Done

Project Implementation…………………………Not Done

Project Outcome………………………………...Not Done

Project Testing…………………………………..Not Done

Project Overview………………………………..Not Done

Meet with the project coordinator……………….Not Done

Final Project Submission………………………..Not Done

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