VISVESVARAYATECHNOLOGICALUNIVERSITY

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REPORT ON

“MICROCONTROLLERSSOFTWAREPROJECT”

Submitted by

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B SECTION

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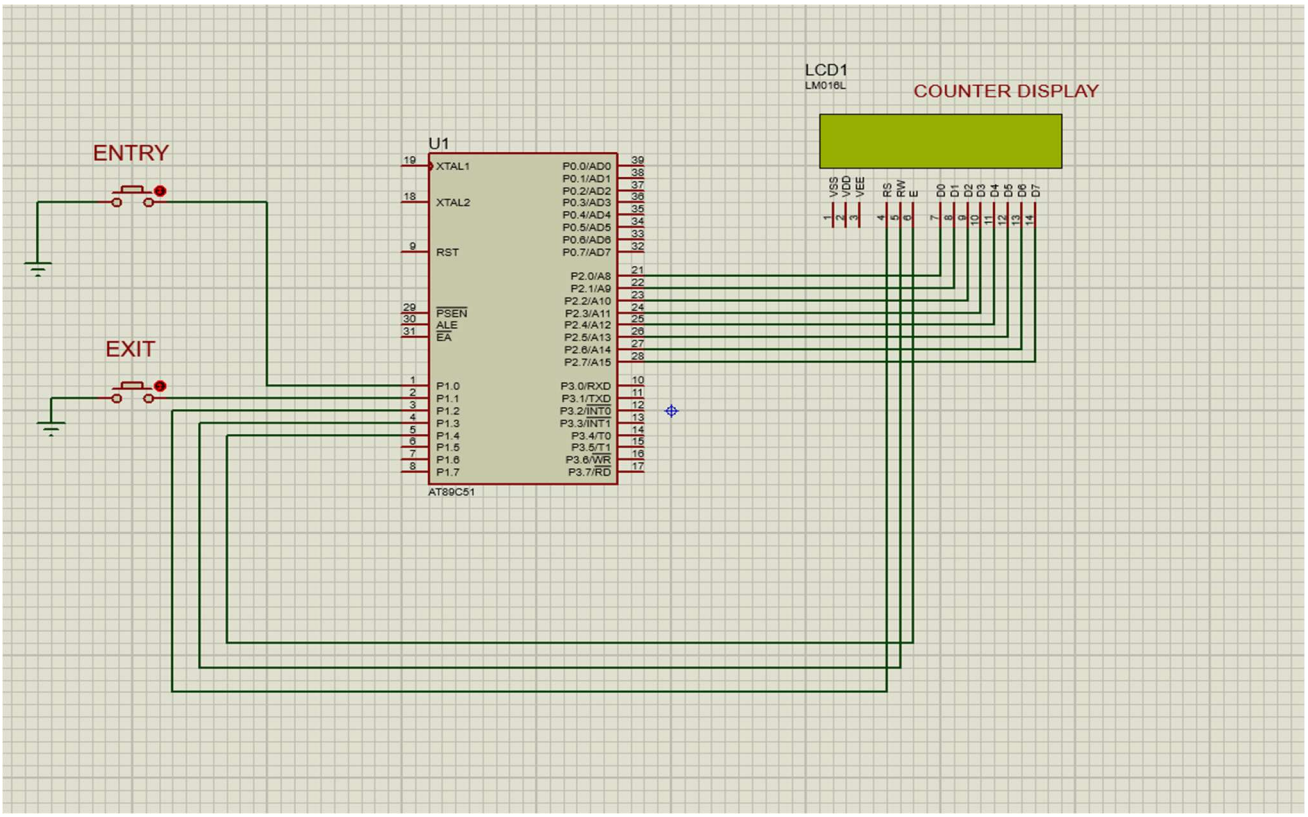
TITLE: Visitor counter system design using 8051 microcontrollers.

DESCRIPTION:- Visitor counter system designed using 8051 micro-controller, AT89C51 micro-controller. Software developed using Embedded C Language in Keil IDE software and prototype simulated using Proteus simulation software.

COMPONENTS REQUIRED*:*

- Buttons as sensors
- 16*2 LCD
- AT89C51 microcontroller.

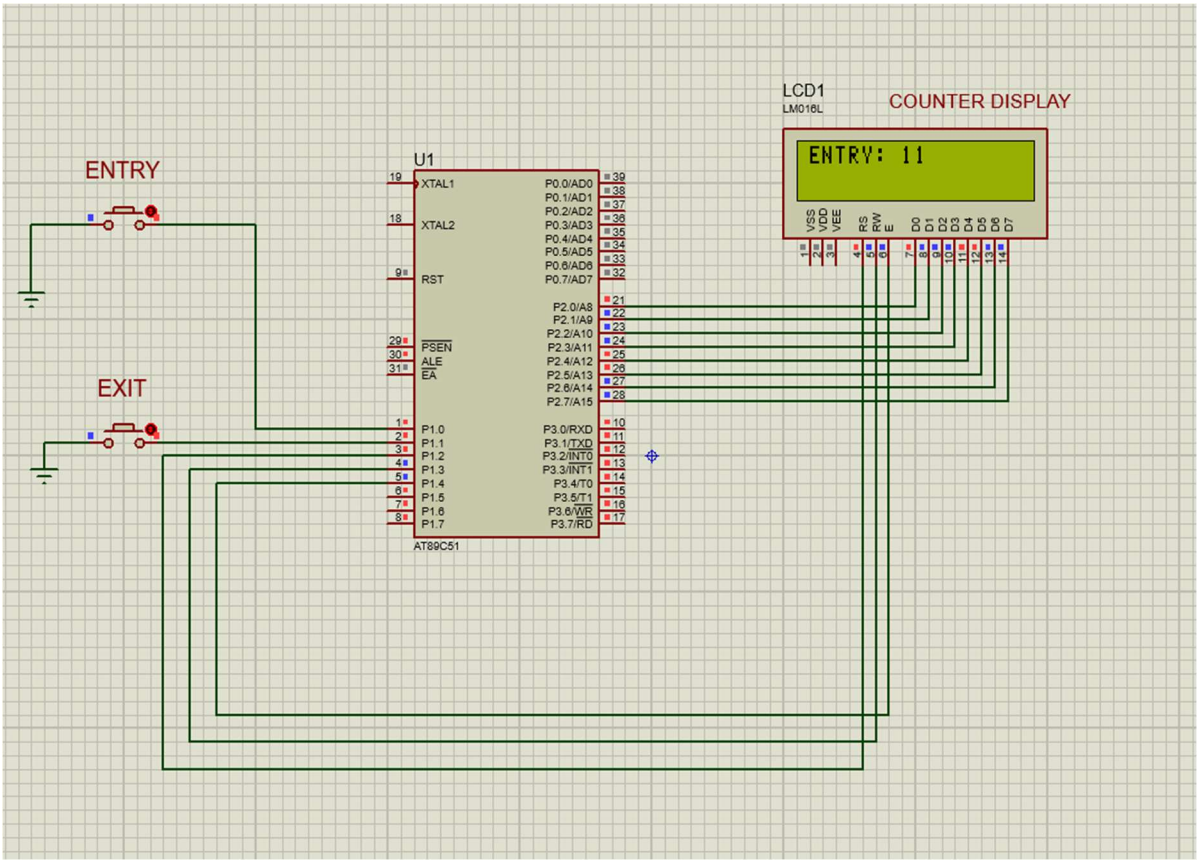
CIRCUIT DIAGRAM:



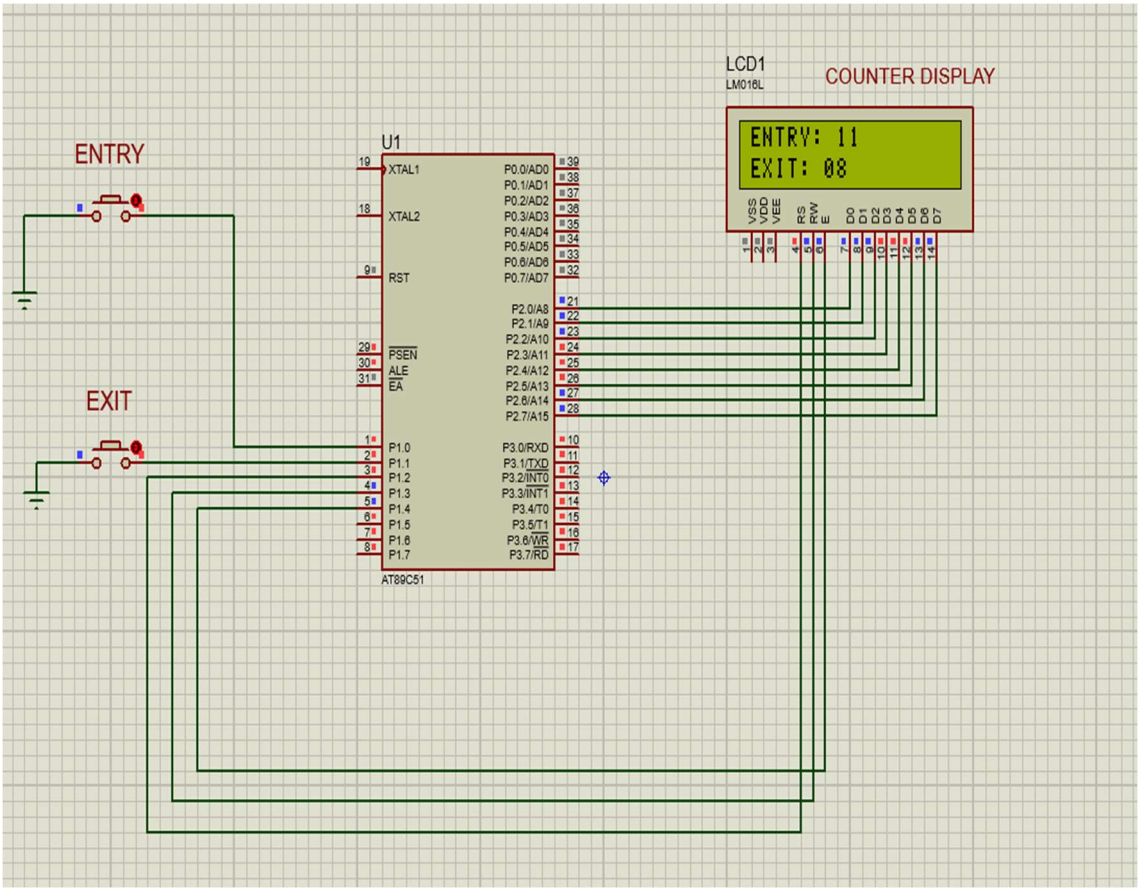
WORKING:-

- **Theory**: Since it is the time of covid, the government has imposed a lot of restrictions for the safety of its public and so the only limited number of people are allowed to attend any ceremony, festivals or any kind of public gathering so this project helps us to control the number of people and helps them to follow rules and regulations and maintain public safety.

1. Initially, the LCD will be off when sensor 1 is triggered the **ENTRY** count is incremented indicating a person has entered.



- when sensor 2 is triggered the **EXIT** count is incremented indicating a person has left the premises.



- When the count reaches its maximum value (maximum is set to 100 initially) the counter stops.

DATE OF SUBMISSION: **14/08/2021**

WHETHER VIDEO OF FUNCTIONAL PROTOTYPE IS SUBMITTED ALONG WITH THIS DOCUMENT

YES ☐ NO ■

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