

A PROJECT REPORT ON
DOOR SENSOR ALARM SYSTEM

SUBMITTED BY-

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ABSTRACT

The need for door sensor alarm system is a serious demand. As the number of crimes are increasing every day, there has to be something that will keep us safe. We are all aware of the high end door sensor alarm present in the market. But they are not easily available to everyone. We therefore intend to provide a solution by constructing a cost efficient electronic system that has the capability of sensing of door is open or closed and setting off the alarm. The basic idea behind this project is that when door is open then it will produce sound. And LED will glow.

The project involves the use of atmega328p microcontroller, Audio Out Device, LED , resistor and a simple program.

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INTRODUCTION

Door Sensor Alarm System is a project that enables to sense the Door is open or closed. This project can be use in home , organisation , and many other places. This is implemented in C . C is a platform independent language. Its created project can be used on a standalone machine.

The objective is to construction an electronic circuit that acts as a watch dog. It is used to protect a door when it is ON. It sounds an alarm when the door is open. Alerting you if someone opens, or tries to open , the doors in your home.

Anyone can use Door Alarm System in home, in hospital, in any organization. Door Alarm System can be very effective home security device. This project uses simple functions.It is very easy to work.

By using atmega328P microcontroller it can be achieved. This Project requires a lost cost of development.

The project involves the use of atmega328p microcontroller, Audio Out Device, LED , resistor and a simple program.

REQUIREMENTS

HIGH LEVEL REQUIREMENTS

In this Project we use a atmega328P microcontroller , a LED , an audio out device and a resistor.

- 1.This can be use in door of a car. If door of a car is open then this buzzer will produce sound and LED will glow.
- 2.This can be use in a home for security purpose. alerting you if someone tries to open the door.

LOW LEVEL REQUIREMENTS

This project is implemented by using c language in both windows and Linux OS.

DESIGN

FLOW CHART OF DOOR SENSOR ALARM SYSTEM

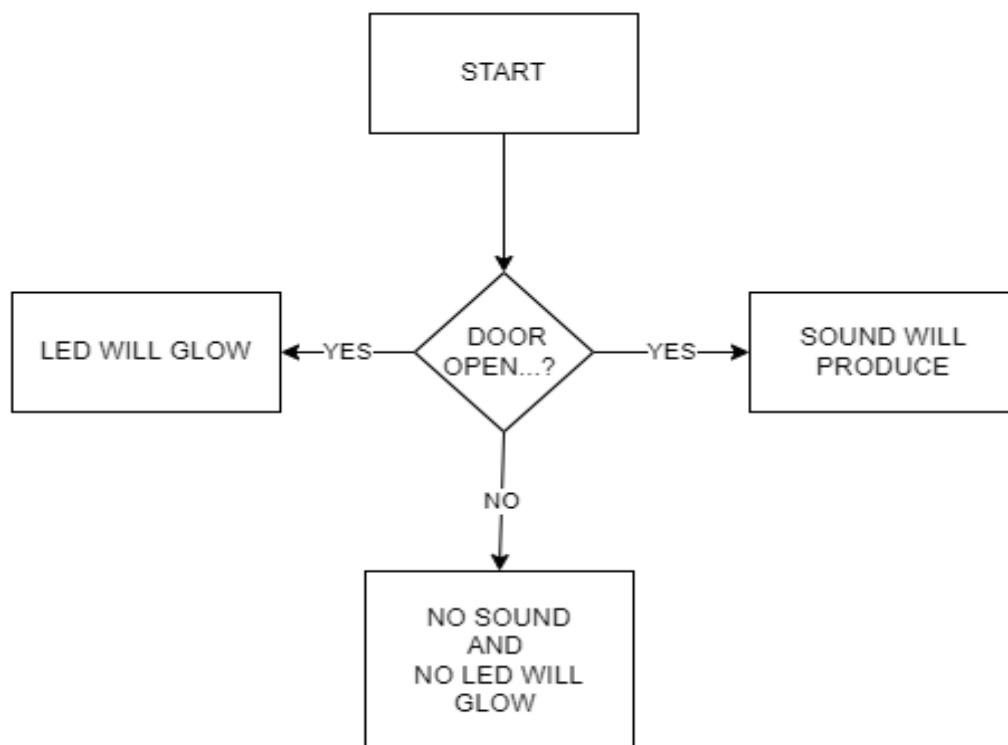


Fig 1.

STRUCTURAL DIAGRAM OF DOOR SENSOR ALARM SYSTEM

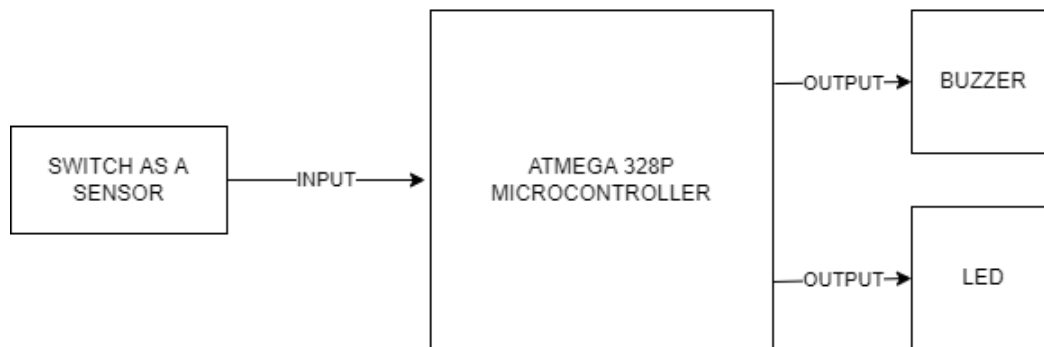


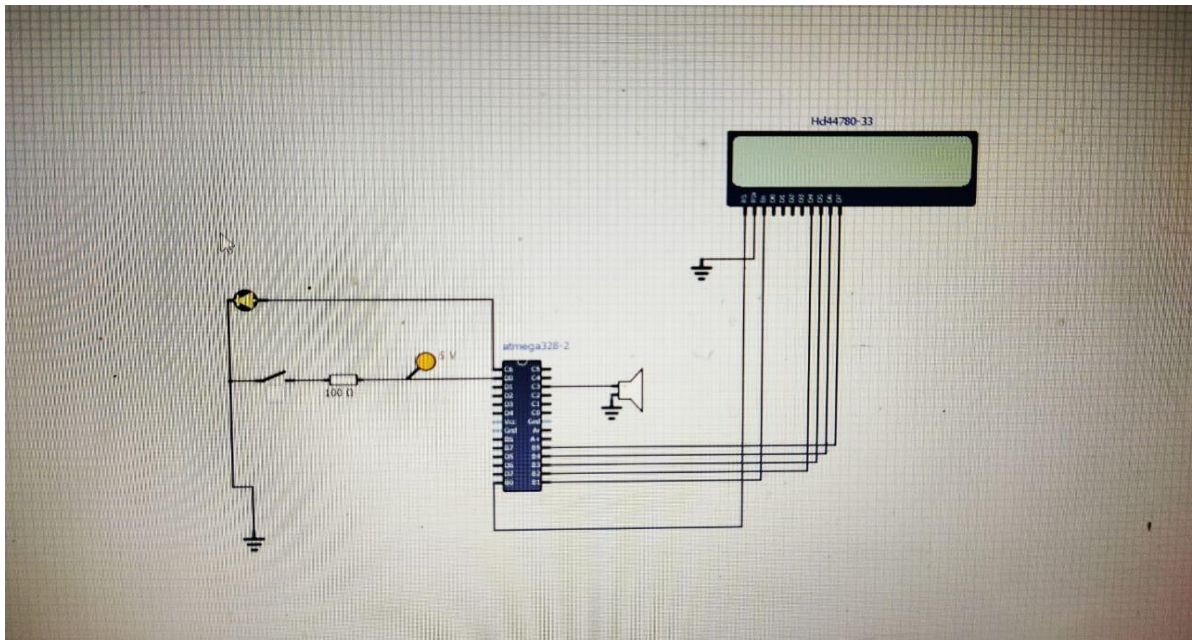
Fig 2.

HOW TO USE THIS PROJECT....?

1. Press the Switch button.
2. Open the switch.
3. LED will glow.
4. Buzzer will produce sound.
5. Close the switch.
6. LED will off.
7. Buzzer will not produce sound.

OUTPUT

1. When door is open



2. When door is closed.

