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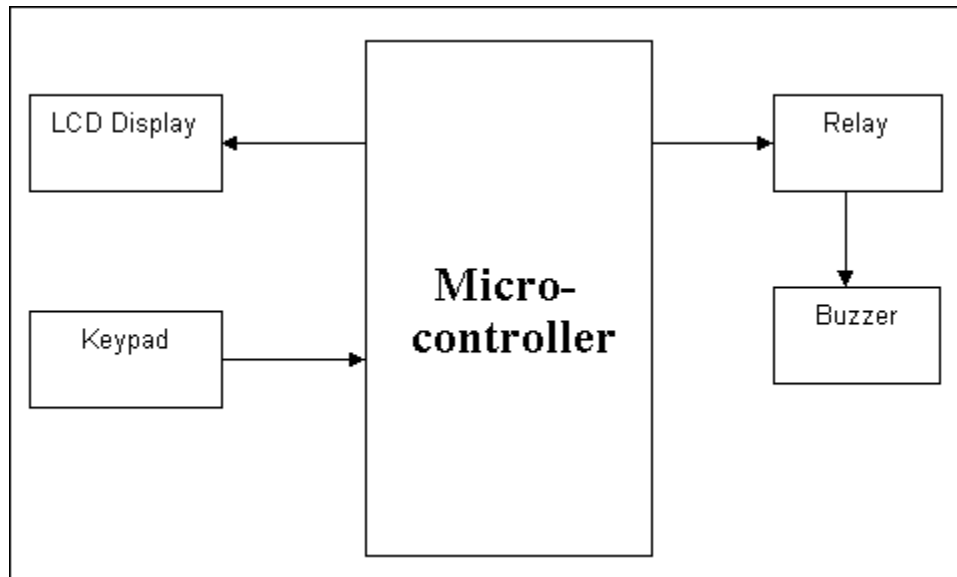
Code	Project Title
1155	Automatic Bell For Colleges

# Synopsis for Automatic Bell for College

## 1. Introduction

Main concept behind this project is to reduce the human efforts behind the college/school bells. User can change the bell interval timings anytime he/she wish using a keypad. Also an "Examination mode" is provided so as to change the behavior of system. This project is equipped with serial interface which is used to send this data to a computer through serial port.

## 2. Block Diagram



## 3. Block Diagram Description

It mainly consist of following blocks

**1. Microcontroller:** This is the CPU (central processing unit) of our project. We are going to use a microcontroller of 8051 family. The various functions of microcontroller are like:

I. Reading the digital input from Keypad

II. Sending this data to LCD so that the person operating this project should read it

III. Sensing the password using keypad and to check whether it is a correct password or a wrong password.

IV. Sending the data to the computer using serial port. This data consist of various timings of bell

**2. LCD:** We are going to use 16x2 alphanumeric Liquid Crystal Display (LCD) which means it can display alphabets along with numbers on 2 lines each containing 16 characters.

**3. PC Interfacing:** We are going to use max 232 IC for pc interfacing, the status of alarm will be sent to pc.

**4. Keypad:** User will enter the password using the keypad. Various keys of keypad are as following,

I. 0 to 9

II. Enter

III. Escape

## **Application and Advantage:**

1. Can be used in various institutes like schools, colleges, universities.
2. The project can be used to automate various processes in the industries.

## **Future Development:**

1. We can send this data to a remote location using mobile or internet
2. We can implement a wireless remote control to this project so as to operate this project without keypad and from a distance location.

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