

## Elevator-using-C8051f020-Microcontroller

### Task 2

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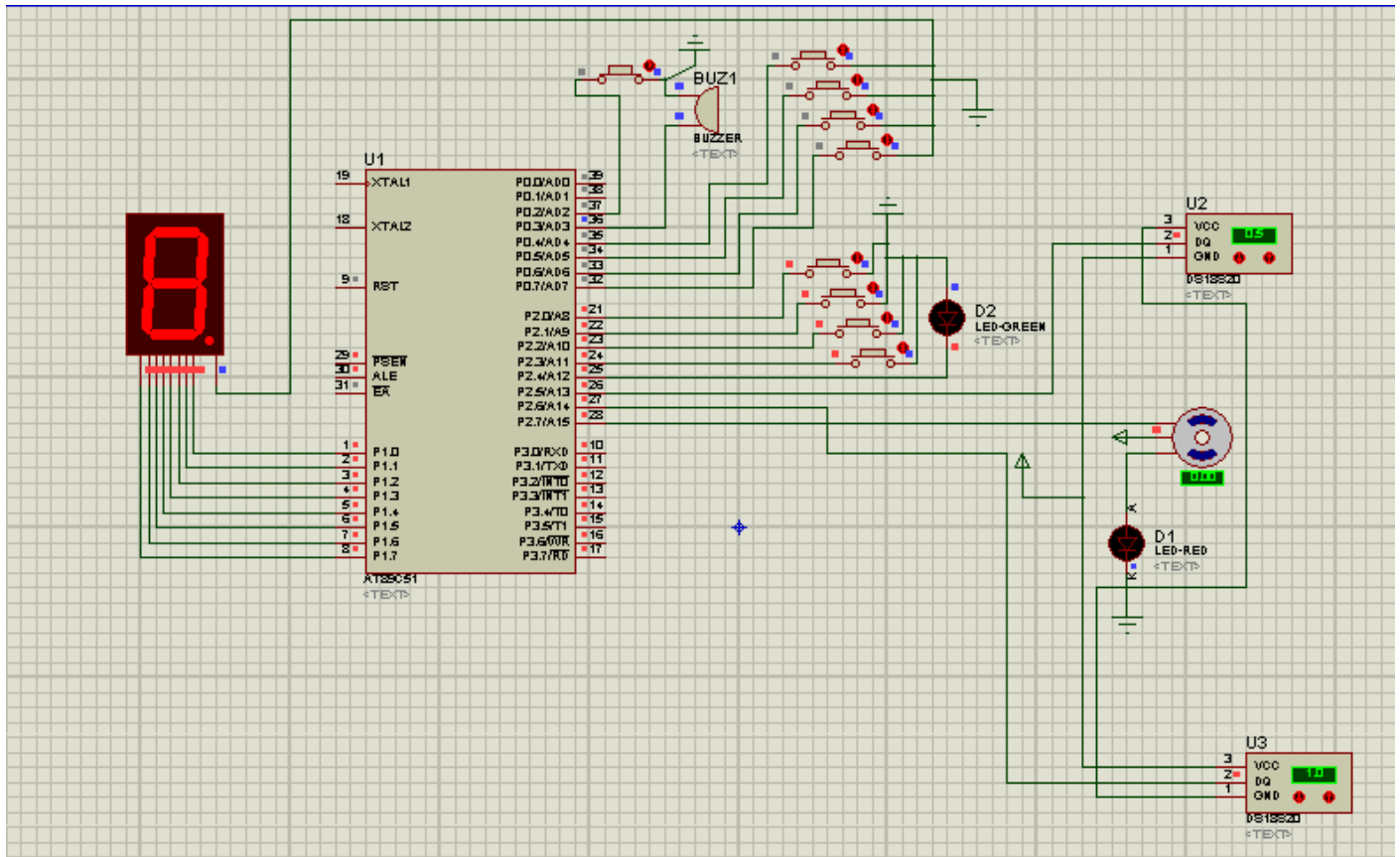
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## Introduction :

This is a simple project on how to Control Elevator Lift using 89c51 Microcontroller. Implantation is simple no interrupts of microcontroller are utilized for emergency situations or changing the floor during elevator movement. Once the floor is selected you can not change or deselect it. 8051 microcontroller general purpose input output pins are used to select the floor and display the floor num. on 7-Segment.

## System Schematic Model



## Description:

In this task we worked on C8051F020 to design a simple elevator system in a building consisting of four floors. Each floor has two buttons one for going up, and one for going down except for the ground and last floor have one button only. The Elevator itself have at least five buttons inside the cart, one for each floor. The elevator door wait for 5 seconds before closing, and the door can be stopped from closing by pushing the open button. Also, the elevator door opens if someone blocks the door. The “going up” buttons request the elevator to go to the top floors, while the a “going down” buttons request/make the elevator go to the ground floors. The maximum load for the elevator is five persons. If the number of persons exceeds five, an alarm will work and elevator will not move.

**Source code:** <https://github.com/Ghada-Adel-Abdelaziz/Elevator-C8051f020-Microcontroller/blob/master/ELEVATOR.c>