On demand Traffic lights control

Project Documentation

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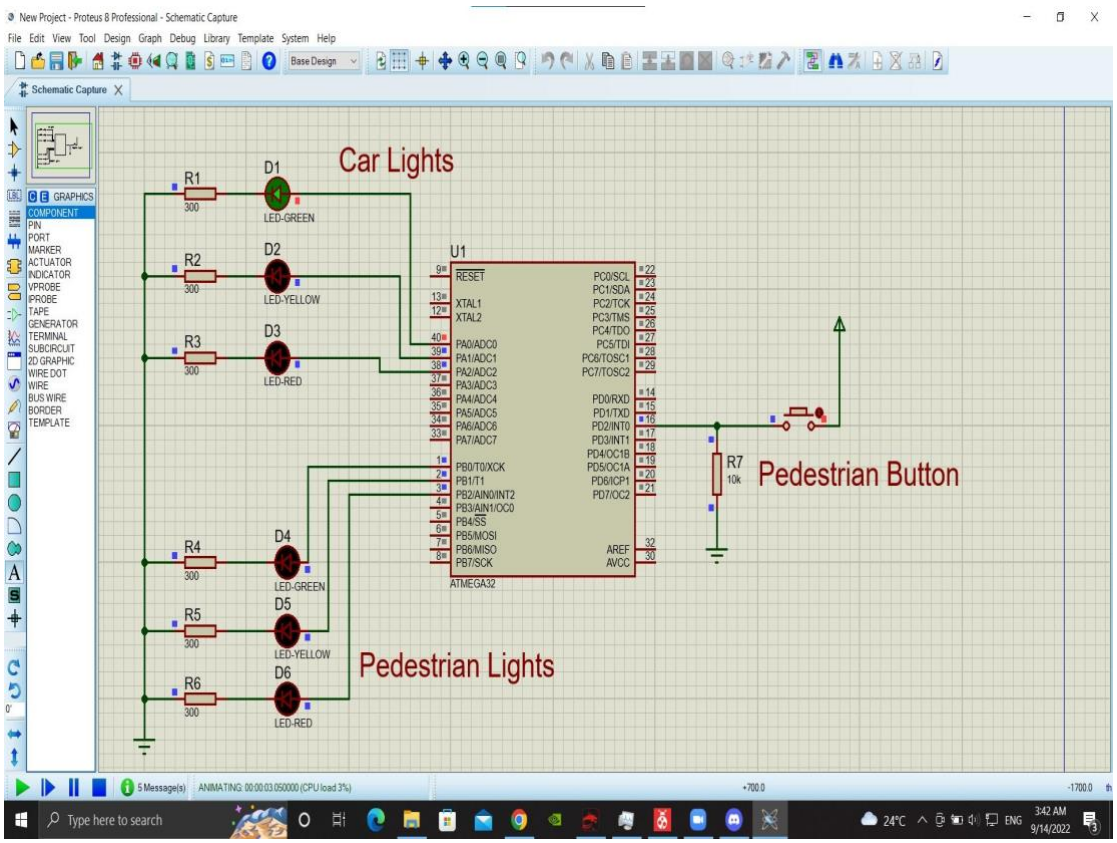
Table of contents:

1. System Description :

1.1 System Overview:



A Traffic control system to pedestrian that has a button to allow the pedestrian to pass the road

1.2 System Functionality:

The system can detect if the button are pressed or not and check if it long press (1sec) or short press or double press based on current state it would decide what to do. It allows pedestrians to walk after making sure that the cars stopped. For more

information look to Flow Chart and for source code look at Traffic lights control file.

2. System Design:

2.1 System Requirements.

Consisted of:

1.AVR Atmega32.

2. 2 Green LEDs.

3. 2 Yellow LEDS.

4. 2 Red LEDS.

5. 6 300 Ohm resistors.

6. 110k Ohm resistors.

7. 1 Push Button.

2.2 Operating Environment

The program has been tested and will work in traffic lights control system with a pedestrian push button included

2.3 Input and Output Format.

The input is pedestrian push button and the output is the 6 LEDs.

3.Flow Chart.