



Traffic Light System

(Task1)

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Description

- The system consists of two LEDs (red and green) that are lit one after the other. The period of each led lightening is specified by the user.
- In the system 3 switches are used to specify the max period, the user can choose between 30,20,10 s.
- For these different max values ,2 seven segments are used to display the countdown for each period.
- The counting starts from the chosen max value until it becomes 00, the led will turn off and the second led is turned on and the counting starts again and so on.
- The frequency of counting on seven segments can also be changed by the user through another 3 switches, by decreasing the delay time, frequencies are increased and can go through low, medium, or high frequency.

Schematic

