On demand Traffic Light Project

System Description:

It is a system for a traffic light controlling it, in two modes   
the first mode is the Normal mode   
in Normal mode the traffic light will start with Green Light For 5 seconds , Then it will Turn into yellow ,

Then will change to Red, and back to yellow again and so on.

System Design:

The system will require 6 LEDs,1 seven-segment, ATMEGA32 MC, push button

System Flow chart:

Diagram

Description automatically generated

System Constrains:

This System will Work For Normal Conditions and will be applicable to The One way road only   
and can’t be applied to any intersections or Cross streets