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| **Abstract:** |  |
| Abstract— At present, traffic control is a big problem in the country, especially in Dhaka city. One of the main causes of this problem is manual control of the traffic. If the traffic signaling system can be automated then this problem could be solved to a greater extent. In this work, an automatic traffic control system has been developed using a Programmable Logic Controller (PLC). For this purpose, we used Allen-Bradley MicroLogix PLC. The system is developed for a junction of four roads only. Traffic light models are implemented using several red, green and yellow Light Emitting Diodes (LEDs) that are connected to the output ports of the PLC. According to the PLC programming, the LEDs are operated in a definite sequence. For energizing different parts of the system, a 24 V DC voltage source is used. The Rockwell software is used for PLC programming. It is found that the implemented system works very well. | |