Abstract
Automation is the use of control systems and information technologies to reduce the need for
human work in the production of goods and services. Home automation is one of the most
exciting developments in technology from the past decade. In this work, home automation
system is developed using arduino microcontroller. There are five sensors used in this system
namely RFID used for controlling the access of main door, light dependent resistor (LDR) for
automatic control of curtains, LM35 for fire detection system, Passive infrared (PIR) for lighting
system and ultrasonic level sensor for continuous monitoring of water level in tank. A home
automation system integrates electrical devices in a house with each including domestic
appliances and home entertainment systems. These devices are connected to microcontroller
and computer to allow control via computer network.

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Index Terms

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