GSM-based cellular iot home automation

06-05-2022

# Overview

What if you are out of your home (and/or in another country) and suddenly realize that you have forgotten to turn off the geyser, lights and other electrical appliances? This costly mistake can increase the electricity bill as well as put your and others lives in danger.

## Working Principle

|  |  |
| --- | --- |
|  | Insert any SIM card (that supports 2G network) in the SIM800L module and connect any appliance through a relay. Now, send the message consisting of commands to the phone number (of the SIM card). Here, I have used the lights on/off command for turning the lights on or off. You can set any command in the code, which you can control using SMS. |

# Hardware used in this project:

1. GSM-Module – SIM 800L

2. Arduino Uno

3. Relays

4. Wires

# Conclusion :

* We can control/reduce the electricity.
* We can operate our electrical things from our Offices, Colleges etc.