

Bluetooth Module

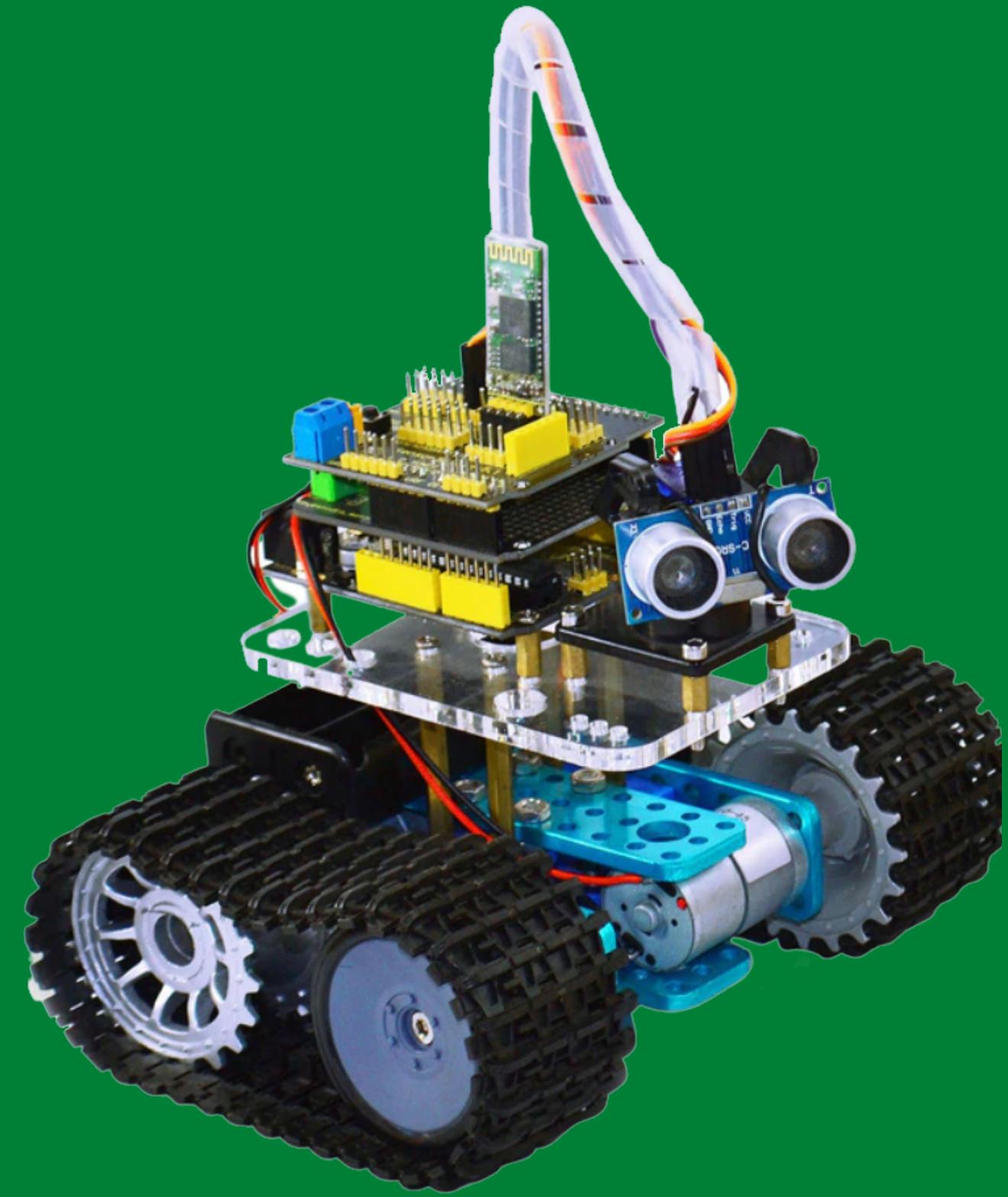


Day 5

Presented by:
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How we control our system manually?

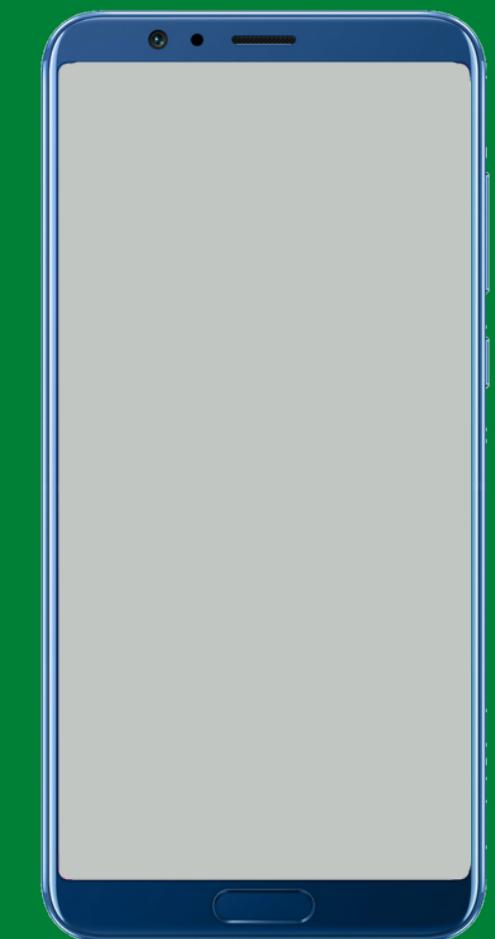
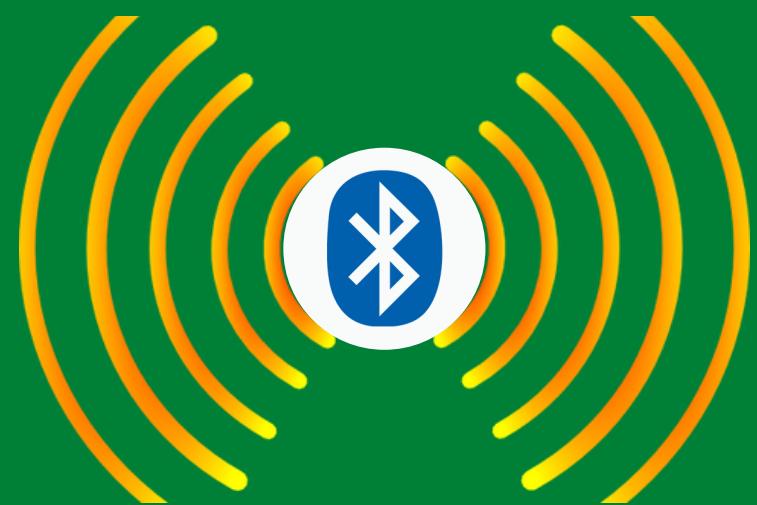
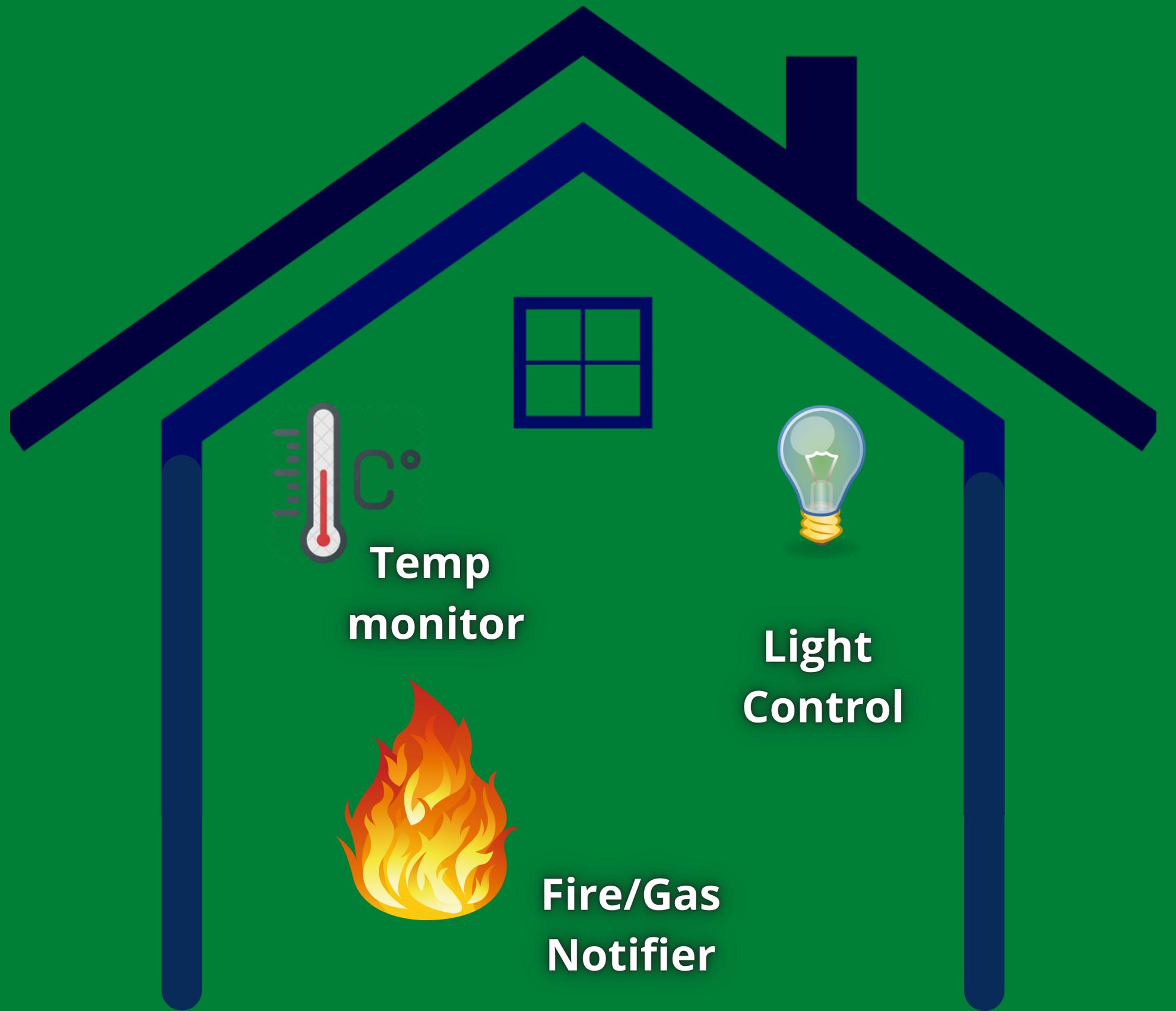


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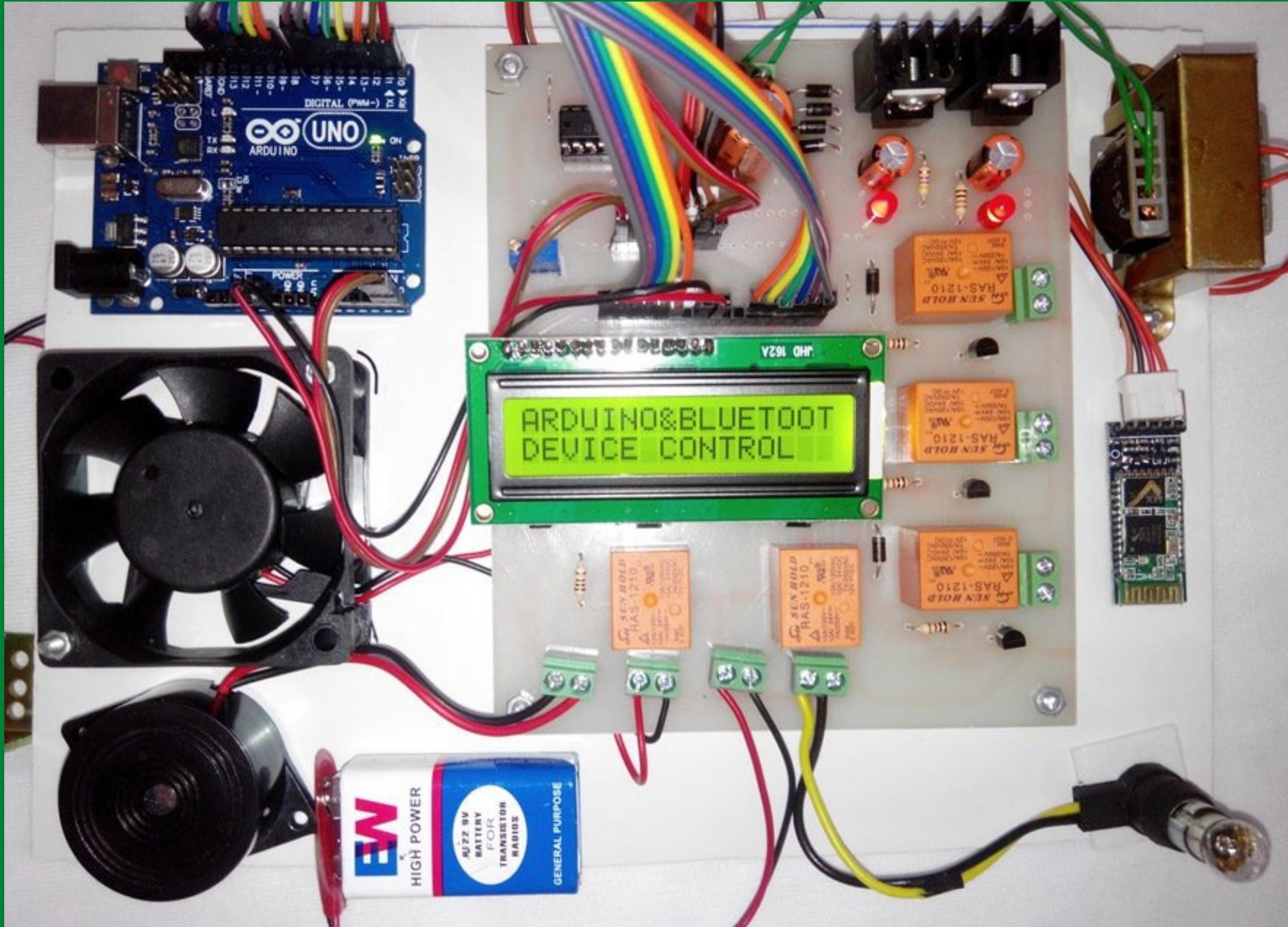
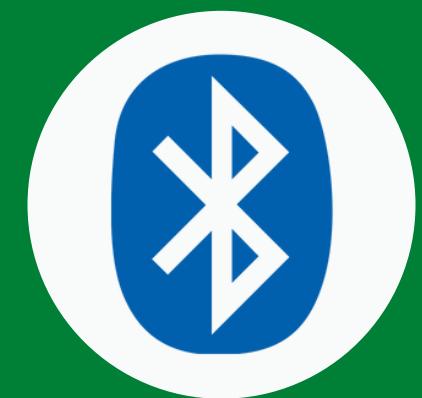
Application



1. Wireless communication between two microcontrollers
2. Communicate with Laptop, Desktops and mobile phones
3. Wireless Robots
4. Home Automation



Home Automation



Pin Diagram

1. Enable / Key- This pin is used to toggle between Data Mode (set low)

and AT command mode (set high). By default it is in Data mode

2. Vcc- Powers the module. Connect to +5V Supply voltage

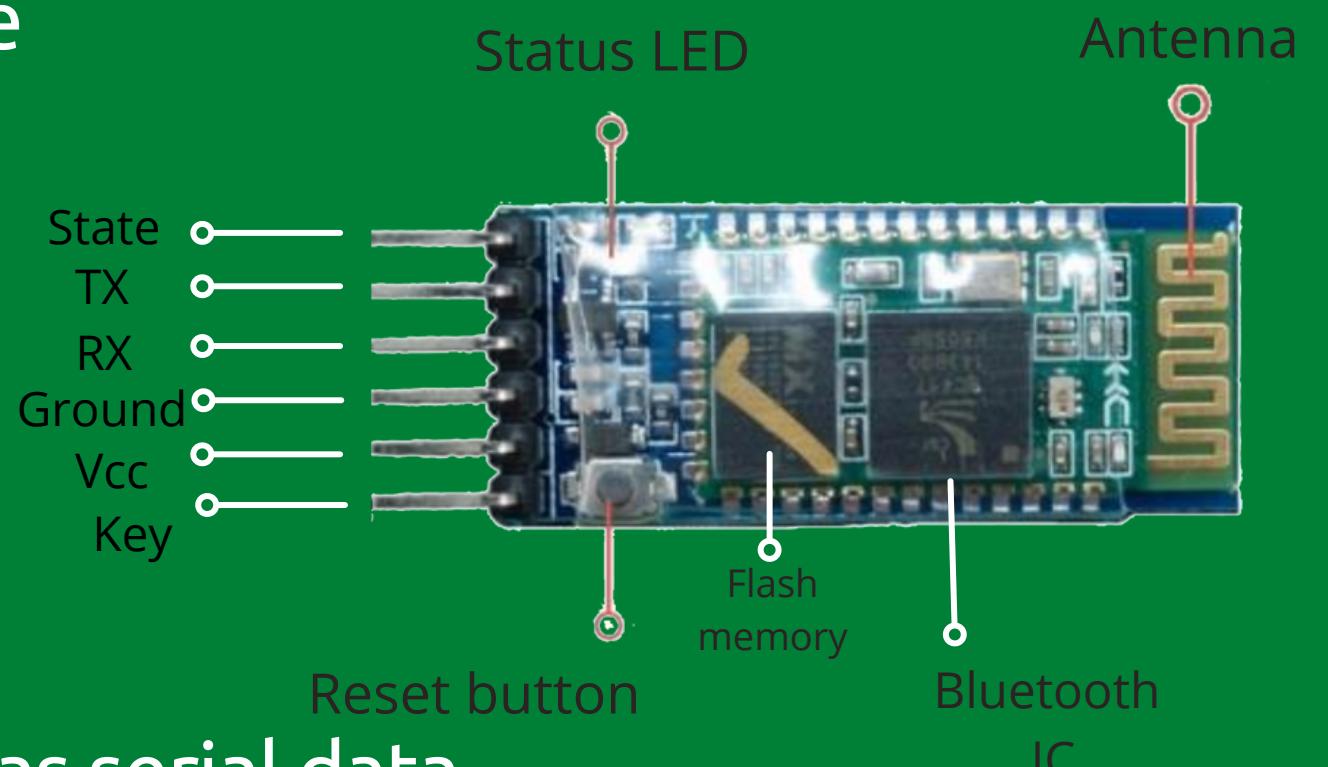
3. Ground- Ground pin of module, connect to system ground.

4. TX – Transmitter- Transmits Serial Data.

Everything received via Bluetooth will be given out by this pin as serial data.

5. RX – Receiver-Receive Serial Data. Every serial data

given to this pin will be broadcasted via Bluetooth



6. **State**- The state pin is connected to on board LED, it can be used as a feedback to check if Bluetooth is working properly.

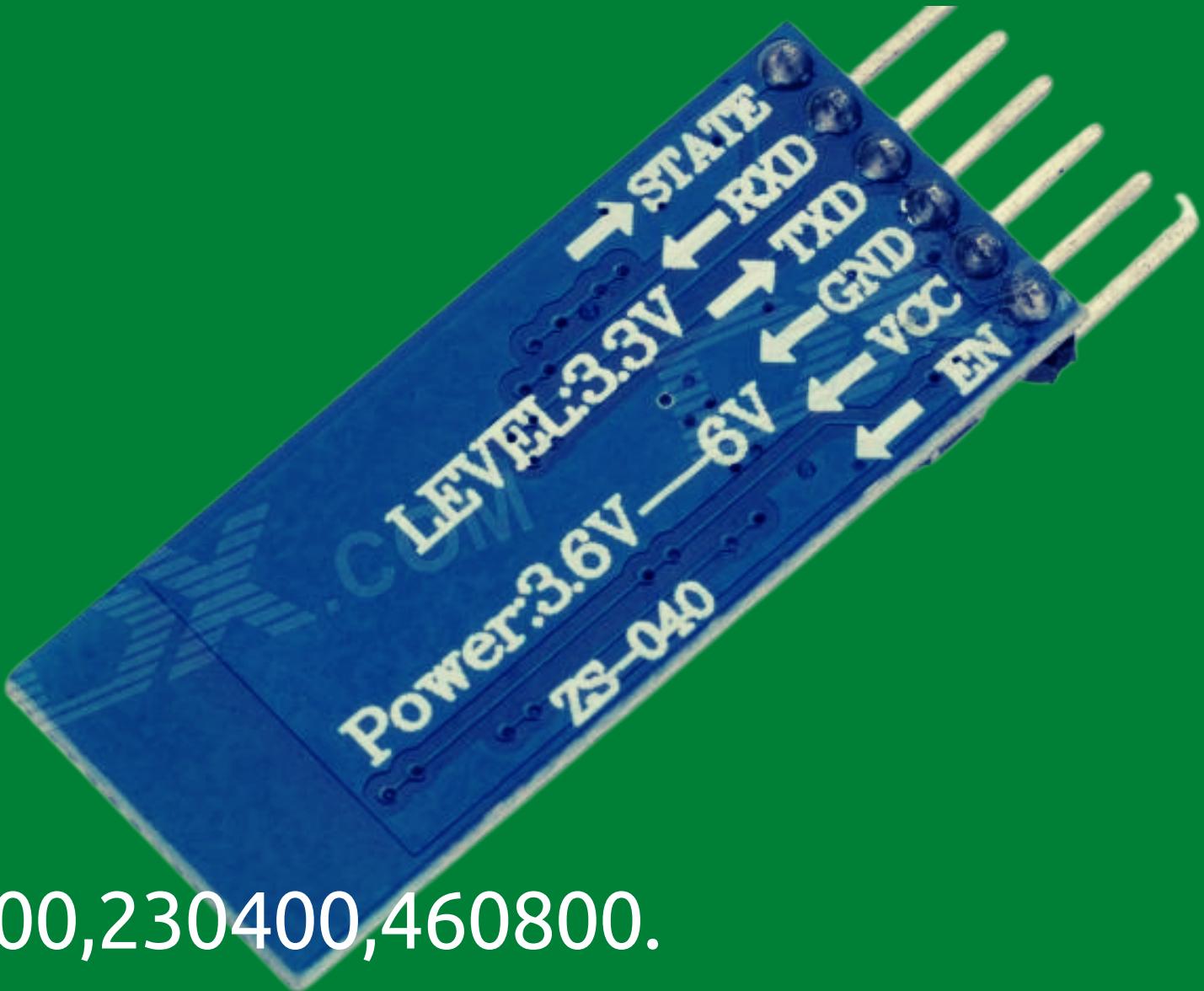
7. **LED**- Indicates the status of Module

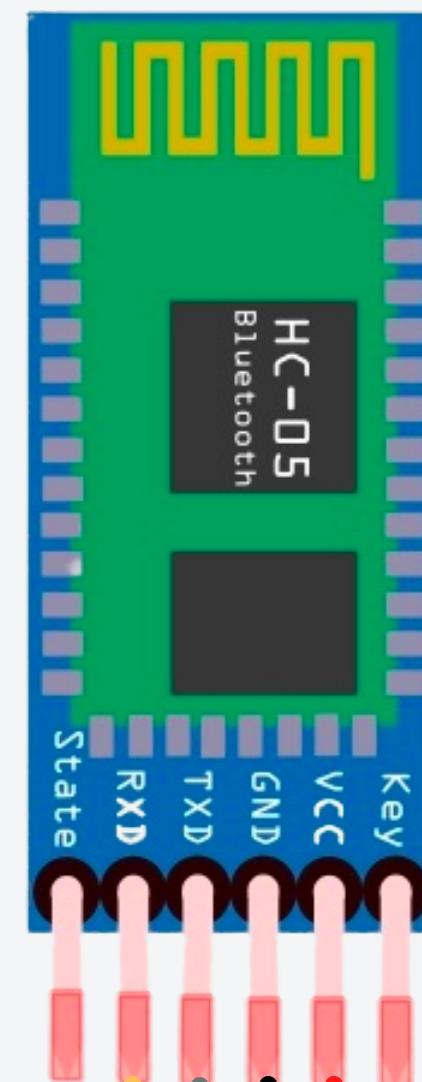
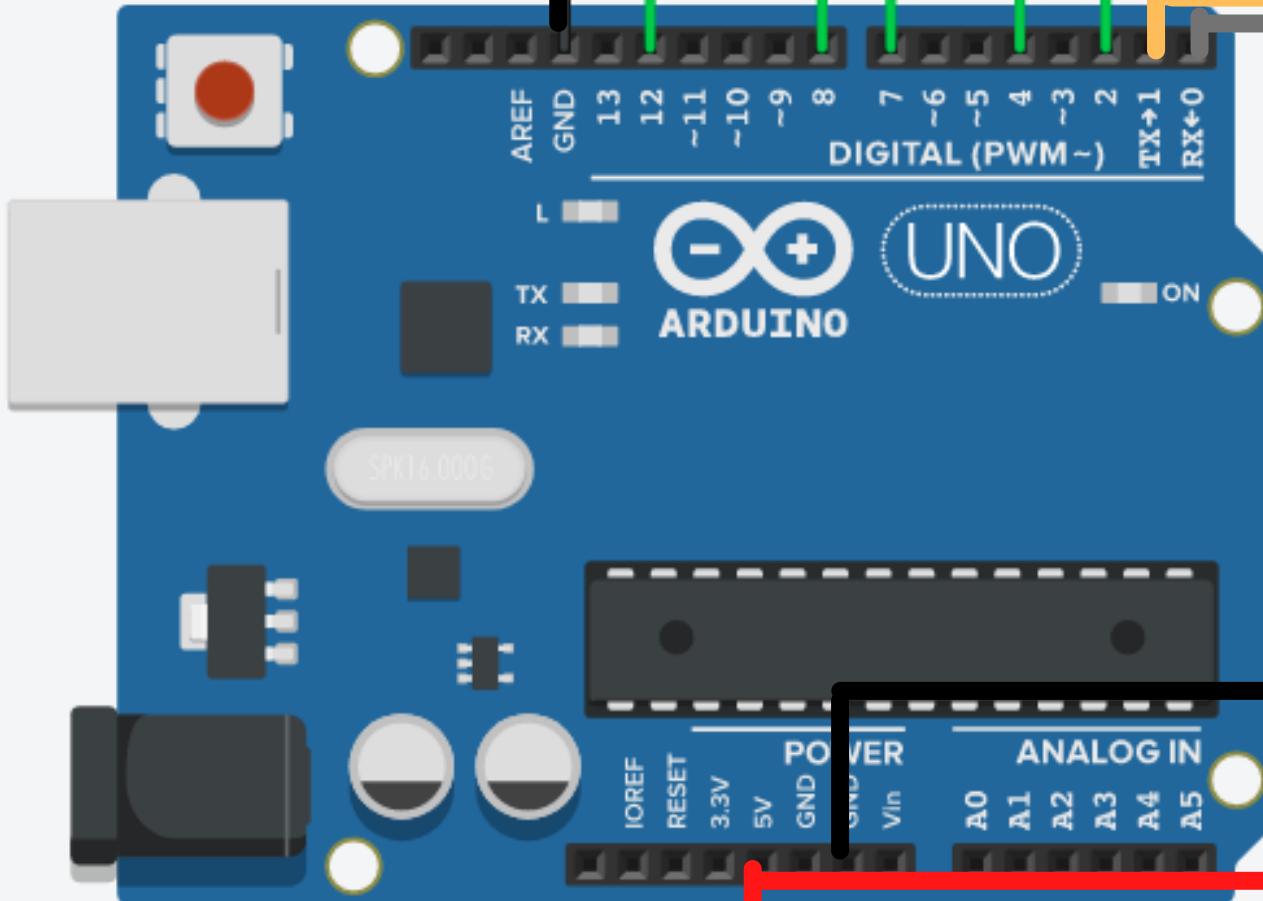
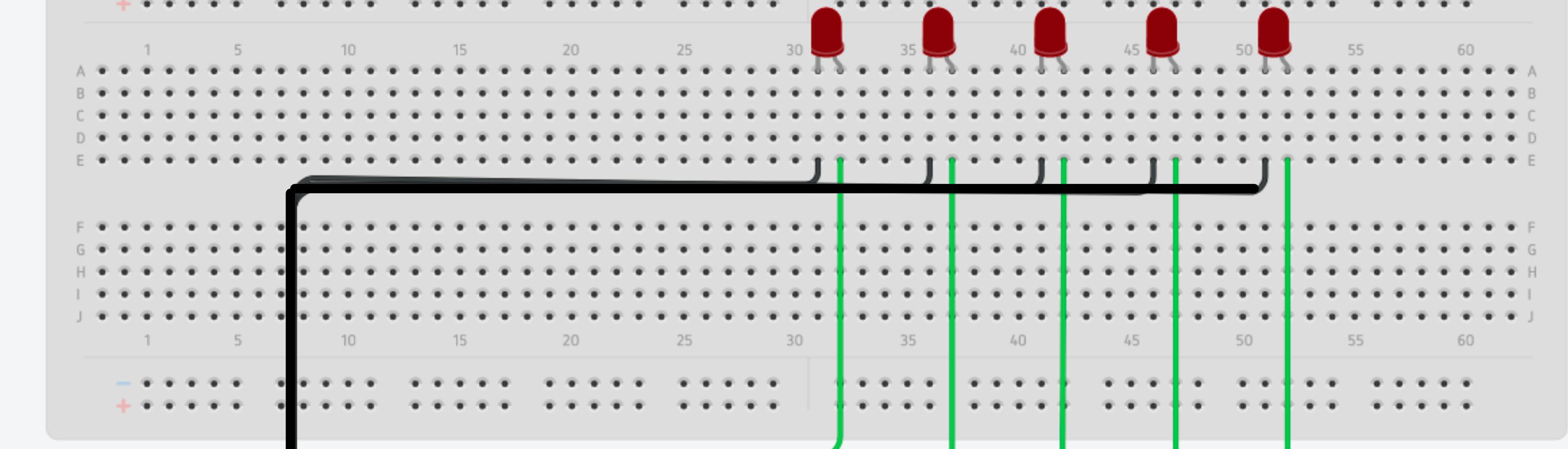
- Blink once in 2 sec: Module has entered Command Mode
- Repeated Blinking: Waiting for connection in Data Mode
- Blink twice in 1 sec: Connection successful in Data Mode

8. **Button**- Used to control the Key/Enable pin to toggle between Data and command Mode

Technical Specification

- Operating Voltage: 5 volt
- Operating Current: 30 mA
- Works with serial communication (USART)
- It can easily interface with Mobile
- Can operate in Master, Slave or Master/Slave mode
- Supported baud rate: 9600,19200,38400,57600,115200,230400,460800.





Now let's see Demo....

Thank you