

Aim : Create a simple web interface for Raspberry-Pi / Beagle board to control the connected LED's remotely through the interface

Theory :

① **WiringPi :-**

- wiring Pi is a pin based GPIO access library written in C for the BCM used in the Raspberry Pi. It's released now under the GNU LGPL v3 license and is usable from C, C++ and RPI B (BASIC) as well as many other lang with suitable wrappers.

② **Install wiring pi :-**

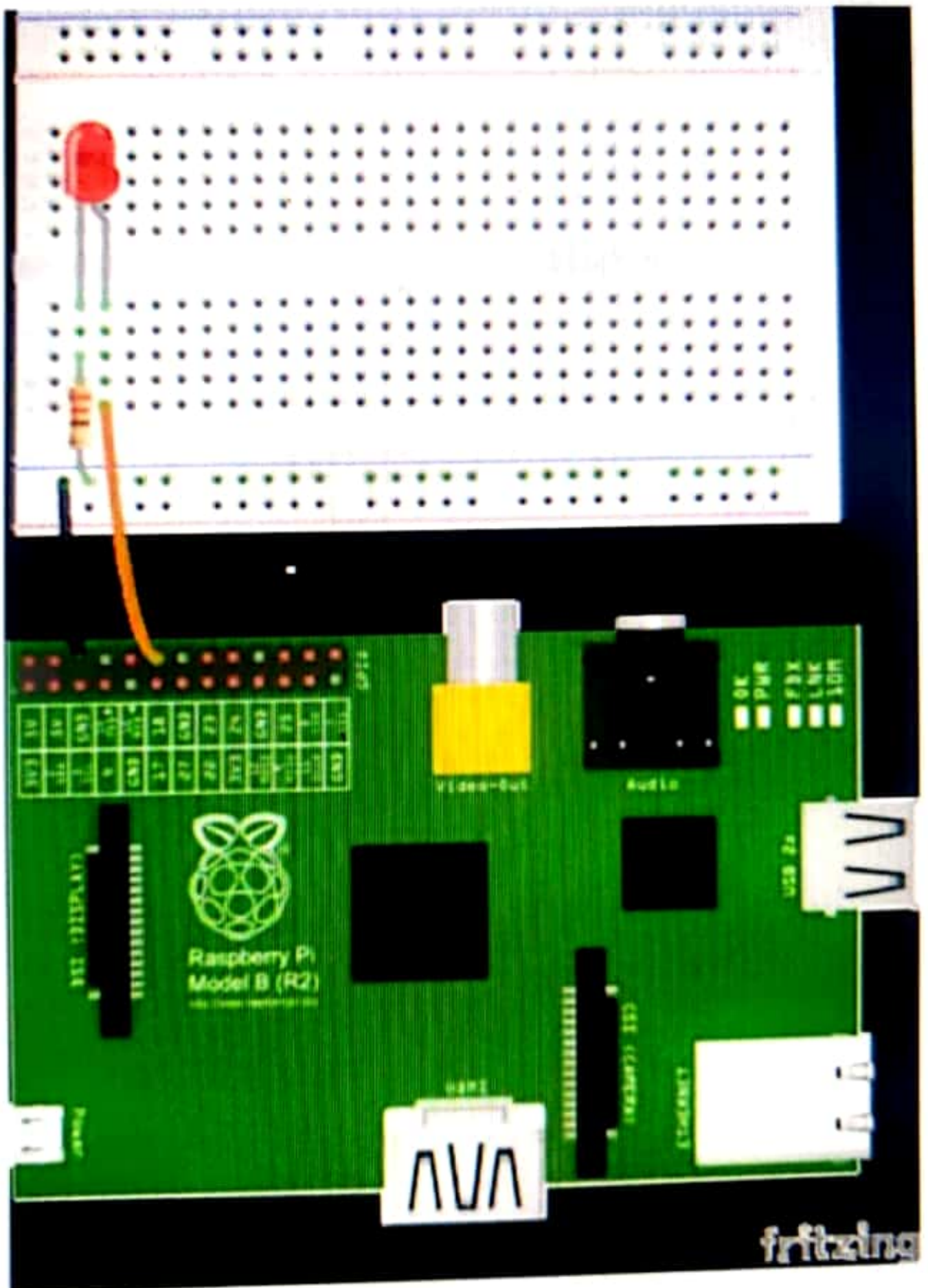
- wiring pi is not included with Raspbian so to begin you'll need to download and install it
- That means, your pi will need a connection to the Internet - either via ethernet or wifi
- we can do using git to download the latest version

- ~~we~~ As long as you have git installed these commands should be all you need to download and install wiring pi

```
pi@raspberrypi ~$ git clone git://git clone.net /wiringpi
pi@raspberrypi ~$ cd wiringpi
pi@raspberrypi ~$ ./build
```

③ **GPIO Command line utility :-**

Task : connect the LED GND to short pin GPIO to long pin



Remember : GPIO 18 is pin 1 in wiring Pi

GPIO command line utility

① On the LED by val
gpio write 11

② Off the LED by.
gpio write 10

③ web interface to LED

1. create the front pg using HTML which contains two button to put the LED is on or off state
2. control the data i/p from button using PHP

Conclusion :

Thus we have created simple web interface for Raspberry pi / Beagle board to control the connected LEDs remotely through the interface