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TE - 19 A

Assignment : 11

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

Theory

① **Wiring Pi**

- Wiring Pi is a Pin based GPIO access library written in C for the BCM used in the Raspberry Pi. It's released no under the GNU LGPL V3 license and is usable from C, C++ and RTB (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
- 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.drogon.net/wiringPi
pi@raspberrypi~ cd wiringPi
pi@raspberrypi~/wiringPi/
wiringPi$./build
```

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③ GPIO Command line utility

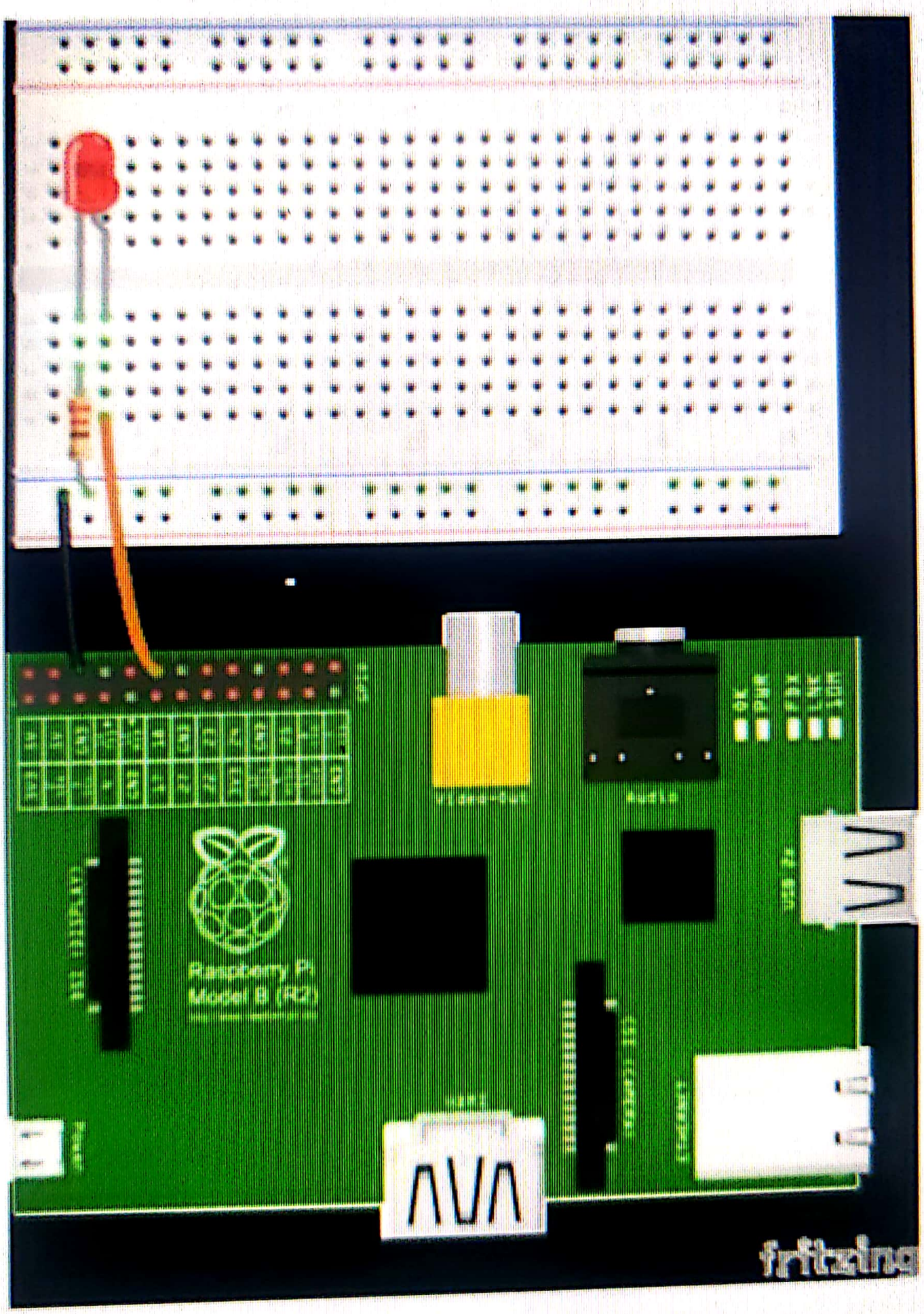
Task: Connect the LED GND to short Pin GPIO
to Long Pin
Remember: GPIO 18 is Pin 1 in Wiring Pi
GPIO Command line utility

① Glow the LED by val
gpio write 1 1

② off the LED by
gpio write 1 0

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 pg



Conclusion

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