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Assignment - 10.

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

Theory - Writing Pi

Writing Pi is a pin based GPIO access library written in C for the BCM2835 used in Raspberry Pi It is released under the GNU LPGLr3 licence & is usable from C, C++ & RTB as well as many other languages with suitable wrappers.

Install wiring Pi

Wiring Pi is not included with Raspbian. so, to begin you'll need to download & install it that means your pi will need a connection to the internet either via ethernet or Wifi we can do using Git to down load the latest version as long as you have Git installed, these commands should be all you need.

GPIO Command line utility

Task: Connect the LED GND to short Pin
GPIO18 to long Pin
Remember GPIO18 is PIN 1 in Wiring PI

1 Glow the LED by Value
gpio write 1 1

2 Off the LED by
gpio write 1 0

Web Interface to LED:

1 Create the front page using HTML which
contains two buttons to put the LED is on
or off state

2 Control the data input from buttons using
PHP page

conclusion

Thus, we have created simple web
interface for Raspberry Pi/Beagle board to
control the connected LED's remotely through
the interface