Assignment No: 11

Aim :-
Create a Simple web interface for Raspberry - Pi / Beagle board to control the connected LEDs remotely through the interface.

Theory :-
WiringPi is a PIN based GPIO access library written in C for the BCM2835 used in the Raspberry Pi. It's released under the GNU LGPL v3 license & is usable from C, C++ & RTB (BASIC) as well as many other languages with Suitable wrappers.

Install wiring Pi :-
WiringPi 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 download the latest version.

GPIO. Command line utility :-

Task : Connect the LED GND to short
Pin GPIO18 to long Pin
Remember : GPIO 18 is PIN 1 in wiri-
ng PI.
GPIO Command line utility.
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 in 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
LEDs remotely through the
interface.